

Cloud Computing Gartner

"This book bridges the gap between solutions and users' needs pertaining to the most relevant open source cloud technologies available today from a practical perspective"--

While business functions such as manufacturing, operations, and marketing often utilize various software applications, they tend to operate without the ability to interact with each other and exchange data. This provides a challenge to gain an enterprise-wide view of a business and to assist real-time decision making. Service-Driven Approaches to Architecture and Enterprise Integration addresses the issues of integrating assorted software applications and systems by using a service driven approach. Supporting the dynamics of business needs, this book highlights the tools, techniques, and governance aspects of design, and implements cost-effective enterprise integration solutions. It is a valuable source of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

As information systems used for research and educational purposes have become more complex, there has been an increase in the need for new computing architecture. High performance and cloud computing provide reliable and cost-effective information technology infrastructure that enhances research and educational processes. Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education presents the applications of cloud computing in various settings, such as scientific research, education, e-learning, ubiquitous learning, and social computing. Providing various examples, practical solutions, and applications of high performance and cloud computing; this book is a useful reference for professionals and researchers discovering the applications of information and communication technologies in science and education, as well as scholars seeking insight on how modern technologies support scientific research.

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.

The primary purpose of this book is to capture the state-of-the-art in Cloud Computing technologies and applications. The book will also aim to identify potential research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business, and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners, developers, new researchers and graduate level students. This area of research is relatively recent, and as such has no existing reference book that addresses it. This book will be a timely contribution to a field that is gaining considerable research interest, momentum, and is expected to be of increasing interest to commercial developers. The book is targeted for professional computer science developers and graduate students especially at Masters level. As Cloud Computing is recognized as one of the top five emerging technologies that will have a major impact on the quality of science and society over the next 20 years, its knowledge will help position our readers at the forefront of the field.

Modern society requires a specialized, persistent approach to IT service delivery. Cloud computing offers the most logical answer through a highly dynamic and virtualized resource made available by an increasing number of service providers. Advanced Research on Cloud Computing Design and Applications shares the latest high quality research results on cloud computing and explores the broad applicability and scope of these trends on an international scale, venturing into the hot-button issue of IT services evolution and what we need to do to be prepared for future developments in cloud computing. This book is an essential reference source for researchers and practitioners in the field of cloud computing, as well as a guide for students, academics, or anyone seeking to learn more about advancement in IT services. This publication features chapters covering a broad range of relevant topics, including cloud computing for e-government, cloud computing in the public sector, security in the cloud, hybrid clouds and outsourced data, IT service personalization, and supply chain in the cloud. Cloud computing has created a shift from the use of physical hardware and locally managed software-enabled platforms to that of virtualized cloud-hosted services. Cloud assembles large networks of virtual services, including hardware (CPU, storage, and network) and software resources (databases, message queuing systems, monitoring systems, and load-balancers). As Cloud continues to revolutionize applications in academia, industry, government, and many other fields, the transition to this efficient and flexible platform presents serious challenges at both theoretical and practical levels—ones that will often require new approaches and practices in all areas. Comprehensive and timely, *Cloud Computing: Methodology, Systems, and Applications* summarizes progress in state-of-the-art research and offers step-by-step instruction on how to implement it. Summarizes Cloud Developments, Identifies Research Challenges, and Outlines Future Directions Ideal for a broad audience that includes researchers, engineers, IT professionals, and graduate students, this book is designed in three sections: Fundamentals of Cloud Computing: Concept, Methodology, and Overview Cloud Computing Functionalities and Provisioning Case Studies, Applications, and Future Directions It addresses the obvious technical aspects of using Cloud but goes beyond, exploring the cultural/social and regulatory/legal challenges that are quickly coming to the forefront of discussion. Properly applied as part of an overall IT strategy, Cloud can help small and medium business enterprises (SMEs) and governments in optimizing expenditure on application-hosting infrastructure. This material outlines a strategy for using Cloud to exploit opportunities in areas including, but not limited to, government, research, business, high-performance computing, web hosting, social networking, and multimedia. With contributions from a host of internationally recognized researchers, this reference delves into everything from necessary changes in users' initial mindset to actual physical requirements for the successful integration of Cloud into existing in-house infrastructure. Using case studies throughout to reinforce concepts, this book also addresses recent advances and future directions in methodologies, taxonomies, IaaS/SaaS, data management and processing, programming models, and applications.

The two-volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human-Computer Interaction, HCII 2017, held in Vancouver, BC, Canada, in July 2017. The total of 1228 papers presented at the 15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions. The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. They cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The papers included in this volume cover the following topics: games in HCI; mobile and wearable interaction; HCI, children and learning; and HCI in complex human environments.

This volume constitutes the proceedings of the 11th International Conference on Cloud Computing, CLOUD 2018, held as part of the

Services Conference Federation, SCF 2018, in Seattle, WA, USA, in June 2018. The 26 full papers presented together with 3 short papers were carefully reviewed and selected from 108 submissions. They are organized in topical sections such as cloud computing; client-server architectures; distributed systems organizing principles; storage virtualization; virtual machines; cloud based storage; distributed architectures; network services; and computing platforms.

Seminar paper from the year 2016 in the subject Business economics - Business Management, Corporate Governance, grade: 1,3, University of Applied Sciences Essen, course: Strategic Management, language: English, abstract: The aim of this term paper is to outline the opportunities and risks connected with the introduction of cloud systems. In addition to the strategic aspect the term paper will evaluate the economic aspect of cloud strategies by examining how to adapt the Total Cost of Ownership (TCO) method to suit cloud services. The first chapters of this paper will present the underlying relationships between Industry 4.0, Internet of Things (IoT), Smart Production and the underlying technology stack behind, followed by an overview of the cloud solutions available as of today. This paper then evaluates the strategic potential of cloud strategies before finally providing a valuation model to deal with the challenge of ascertaining the economic potential of cloud solutions. The first objective of the term paper work is to evaluate the potential of a cloud strategy based on SWOT analysis. The second key question is how to adapt and extend information technology typical commercial valuation models to a cloud strategy based business case.

Cloud computing has become integrated into all sectors, from business to quotidian life. Since it has revolutionized modern computing, there is a need for updated research related to the architecture and frameworks necessary to maintain its efficiency. The Handbook of Research on End-to-End Cloud Computing Architecture Design provides architectural design and implementation studies on cloud computing from an end-to-end approach, including the latest industrial works and extensive research studies of cloud computing. This handbook enumerates deep dive and systemic studies of cloud computing from architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers.

Cloud computing is considered to be one of the main business drivers for growth and innovation, and a global survey by Gartner listed cloud computing as one of the top three technology priorities for CIOs in 2012. Yet debate continues around its real benefits, security and data protection issues. The articles in this ebook look at different aspects of cloud computing, from strategic and infrastructure considerations to legal and security issues, aiming to provide practical advice and a clearer picture of its benefits and drawbacks.

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.

If you want to get more out of your Gartner research subscription, this book is for you! Whether you are a software buyer, a large or small vendor, or are wondering how Gartner can help you make better investment decisions, this book will give you new insights to Gartner's

research. By studying the methodology behind such popular analytical tools as the Magic Quadrant, you will understand how a vendor earned its rating and whether or not the ratings are justified! Starting with the history of Gartner and how it compares to other IT analyst firms, this book gives a realistic assessment of the value of Gartner research to a company and provides ideas about other resources that could complement Gartner's analysis. You will also have the tools to level the playing field between large, medium and small vendors when using Gartner's analysis in selecting software. By reading this book, you will:

- Evaluate whether or not a Gartner subscription is of value to your company
- Adjust the Magic Quadrant to get a more realistic assessment of large and small vendors and their products
- Increase the value of your interactions with Gartner analysts
- Understand Gartner's biases and how Gartner makes money, and how this impacts its research results
- Appreciate the effects of cloud computing on Gartner, and why it matters to you
- Choose consulting services with confidence
- Assess the value of Gartner's other analytical products to your business

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.

There has never been a Infrastructure as a Service Guide like this. Infrastructure as a Service 36 Success Secrets is not about the ins and outs of Infrastructure as a Service. Instead, it answers the top 36 questions that we are asked and those we come across in our forums, consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. Get the information you need--fast! This comprehensive guide offers a thorough view of key knowledge and detailed insight. This Guide introduces everything you want to know to be successful with Infrastructure as a Service. A quick look inside of the subjects covered: Can ITIL assist in cloud computing crisis management?, Cloud Services Brokerage, Introducing ELPaas (Enterprise Legacy Platform as a Service), Infrastructure as a Service (IaaS), Infrastructure as a Service (IaaS), Gartner goes on to state: , Common Cloud Terminology, Using ITIL to generate new Cloud Computing solutions, is it feasible?, A closer look at Google's new cloud offering, Compute Engine (IaaS), Why can't we agree on the definition of Cloud Computing?, Cloudbursting, Effective, manageable, customizable and flexible: This is cloud computing, Cloud Computing Services, Defining Cloud Computing, ITIL helps to forge unity among Cloud Computing technologies, Common Terminology, Types of Services, Everything old is new again, IaaS appears to be outperforming other types of cloud services, Recent Gartner report shows demand for public cloud computing services rising, Benefits like:, Adapting ITIL to fit a cloud service model, How ITIL is contributing to Cloud Computing trends, Demand for public cloud computing services rising, Introduction to Infrastructure as a Service, Forms of Cloud Computing, Compute Infrastructure Services, Cloudbursting, Why can't we agree on the definition of Cloud Computing?, Cloud Computing Services, Glossary, The middlemen between providers and consumers, How ITIL Intermediate training can supplement your Cloud Computing Career, Cloud Computing and ITIL: more compatible than previously thought?, Common Cloud Terminology, The 3 Types of Cloud Computing Services, and much more...

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train

college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing, data science, and adaptive computing that lay the foundation for the rest of the book. Subsequent chapters cover topics including cloud architecture, mashup services, virtual machines, Docker containers, mobile clouds, IoT and AI, inter-cloud mashups, and cloud performance and benchmarks, with a focus on Google's Brain Project, DeepMind, and X-Lab programs, IBM Kai Hwang's M SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples.

In today's dynamic business environment, IT departments are under permanent pressure to meet two divergent requirements: to reduce costs and to support business agility with higher flexibility and responsiveness of the IT infrastructure. Grid and Cloud Computing enable a new approach towards IT. They enable increased scalability and more efficient use of IT based on virtualization of heterogeneous and distributed IT resources. This book provides a thorough understanding of the fundamentals of Grids and Clouds and of how companies can benefit from them. A wide array of topics is covered, e.g. business models and legal aspects. The applicability of Grids and Clouds in companies is illustrated with four cases of real business experiments. The experiments illustrate the technical solutions and the organizational and IT governance challenges that arise with the introduction of Grids and Clouds. Practical guidelines on how to successfully introduce Grids and Clouds in companies are provided.

Cloud computing is becoming the next revolution in the IT industry; providing central storage for internet data and services that have the potential to bring data transmission performance, security and privacy, data deluge, and inefficient architecture to the next level. Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management discusses cloud computing as an emerging technology and its critical role in the IT industry upgrade and economic development in the future. This book is an essential resource for business decision makers, technology investors, architects and engineers, and cloud consumers interested in the cloud computing future.

A close look at cloud computing's transformational role in business. Covering cloud computing from what the business leader needs to know, this book describes how IT can nimbly ramp up revenue initiatives, positively impact business operations and costs, and how this allows business leaders to shed worry about technology so they can focus on their business. It also reveals the cloud's effect on corporate organization structures, the evolution of traditional IT in the global economy, potential benefits and risks of cloud models and most importantly, how the IT function is being rethought by companies today who are making room for the coming tidal wave that is cloud computing. Why IT and business thinking

must change to capture the full potential of cloud computing Topics including emerging cloud solutions, data security, service reliability, the new role of IT and new business organization structures Other titles by Hugos include: Business Agility: Sustainable Prosperity in a Relentlessly Competitive World and Essentials of Supply Chain Management, 2nd Edition Practical and timely, this book reveals why it's worth every company's time and effort to exploit cloud computing's potential for their business's survival and success.

Recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies, providing businesses with a powerful toolbox of collaborative digital resources. These technologies have fostered a more flexible, decentralized approach to IT infrastructure, enabling businesses to operate in a more agile fashion and on a globalized scale. Enterprise Management Strategies in the Era of Cloud Computing seeks to explore the possibilities of business in the cloud. Targeting an audience of research scholars, students, software developers, and business professionals, this premier reference source provides a cutting-edge look at the exciting and multifaceted relationships between cloud computing, software virtualization, collaborative technology, and business infrastructure in the 21st Century.

If you're a general manager or CFO, do you feel you're spending too much on IT or wishing you could get better returns from your IT investments? If so, it's time to examine what's behind this IT-as-cost mind-set. In The Real Business of IT, Richard Hunter and George Westerman reveal that the cost mind-set stems from IT leaders' inability to communicate about the business value they create-so CIOs get stuck discussing budgets rather than their contributions to the organization. The authors explain how IT leaders can combat this mind-set by first using information technology to generate three forms of value important to leaders throughout the organization: -Value for money when your IT department operates efficiently and effectively -An investment in business performance evidenced when IT helps divisions, units, and departments boost profitability -Personal value of CIOs as leaders whose contributions to their enterprise go well beyond their area of specialization The authors show how to communicate about these forms of value with non-IT leaders-so they understand how your firm is benefiting and see IT as the strategic powerhouse it truly is.

Welcome to the proceedings of the 2010 International Conference on Future Generation Communication and Networking (FGCN 2010) – one of the partnering events of the Second International Mega-Conference on Future Generation Information Technology (FGIT 2010). FGCN brings together researchers from academia and industry as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of communication and networking, including their links to computational sciences, mathematics and information technology. In total, 1,630 papers were submitted to FGIT 2010 from 30 countries, which includes 150 papers submitted to the FGCN 2010 Special Sessions.

The submitted papers went through a rigorous reviewing process: 395 of the 1,630 papers were accepted for FGIT 2010, while 70 papers were accepted for the FGCN 2010 Special Sessions. Of the 70 papers, 6 were selected for the special FGIT 2010 volume published by Springer in LNCS series. Fifty-one papers are published in this volume, and 13 papers were withdrawn due to technical reasons. We would like to acknowledge the great effort of the FGCN 2010 International Advisory Board and Special Session Co-chairs, as well as all the organizations and individuals who supported the idea of publishing this volume of proceedings, including SERSC and Springer. Also, the success of the conference would not have been possible without the huge support from our sponsors and the work of the Organizing Committee.

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.

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.

The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. *Web-Based Services: Concepts, Methodologies, Tools, and Applications* provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists,

web developers, and digital experts with the latest knowledge and developments in Internet technologies.

Open Source Cloud Computing Systems: Practices and Paradigms Practices and Paradigms IGI Global

Cloud computing is gaining in importance in the industry, and especially within small- and medium-sized companies due to the many benefits that may be generated in terms of cost savings, faster time to market, scalability, cost flexibility, and the optimization of resources. Today, cloud computing is considered as the next IT revolution, and the number of articles, books, papers, and technical reports flood literature. Within the scope of this book, relevant cloud computing applications for small- and medium- sized companies are identified, and the key success factors for the adoption of cloud computing services are analyzed based on the empirical investigation performed as part of this work. Finally, the benefits and constraints of the different cloud computing service models are presented including also the state-of-the-art research in the cloud computing area, and a summary of the most important results.

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.

"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"--Provided by publisher.

This book documents the scientific results of the projects related to the Trusted Cloud Program, covering fundamental aspects of trust, security, and quality of service for cloud-based services and applications. These results aim to allow trustworthy IT applications in the cloud by providing a reliable and secure technical and legal framework. In this domain, business models, legislative circumstances, technical possibilities, and realizable security are closely interwoven and thus are addressed jointly. The book is organized in four parts on "Security and Privacy", "Software Engineering and Software Quality", "Platforms, Middleware and Integration", and "Social Aspects, Business Models and Standards". It thus provides a holistic view on technological, societal, and legal aspects, which are indispensable not only to ensure the security of cloud services and the data they process, but also to gain the trust of society, business, industry, and science in these services. The ultimate goal of the book, as well as of the Trusted Cloud Program in general, is to distribute these

results to a broader audience in both academia and industry, and thus to help with the proliferation of "Industry 4.0" services.

Cloud Computing Basics covers the main aspects of this fast moving technology so that both practitioners and students will be able to understand cloud computing. The author highlights the key aspects of this technology that a potential user might want to investigate before deciding to adopt this service. This book explains how cloud services can be used to augment existing services such as storage, backup and recovery. Addressing the details on how cloud security works and what the users must be prepared for when they move their data to the cloud. Also this book discusses how businesses could prepare for compliance with the laws as well as industry standards such as the Payment Card Industry. "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.

The IT sector is full of hype. But once in a while there is a genuine inflection point, a moment at which the way of doing things fundamentally changes due to the introduction of new technologies. The rise of cloud computing is just such an inflection point. Cloud computing is the next stage of the Internet computing model, one in which organizations will consume services, not technologies. These services will be ready to run, available outside the office walls, and be paid for on the basis of usage, just like water or electricity. As the cloud and services model matures, not only will businesses be able to solve old problems more inexpensively and rapidly, they will also be able to address new challenges that were previously out of reach. Cloud computing promises a more flexible "services" model for IT systems that puts the business unit or end user at the center of the process. In this way, both the IT organization and the business itself become more agile. At the same time, cloud computing promises to reduce the delivered cost of IT through a greater degree of resource utilization, automation, and self service. This will not happen overnight. It will not be next year, nor even within a year or two. But as time passes, more and more companies will find themselves in a position to be able to source services wherever they like: inside the organization or from any provider, whether it be Google, IBM, HP, EMC, Cisco, Microsoft, Amazon, T-Systems or any other cloud computing vendor. This book is a comprehensive introduction to cloud computing and its most prominent enabling technology: virtualization. In the first part, you are guided through the visions, concept and models behind cloud computing. You will learn how your organization can profit from cloud-enabling technologies and how you can incorporate them in your IT infrastructure. Part II of this book consists of "Industry Outlooks": in depth articles from industry experts. Part III offers a series of useful case stories, covering a broad diversity of virtualization and cloud-related issues. Further to the development of this book, the development team that is

responsible for the content of this book, has developed a certification program on Cloud computing, the Cloud Certification Program. This vendor-neutral Cloud Certification Program provides professionals with the opportunity to obtain globally recognized credentials in cloud computing. The CompTIA Cloud Essentials course Exam is intended for IT professionals who wish to certify that they have the required knowledge and understanding required to complete and pass the CompTIA Cloud Essentials™ Exam on cloud computing. Anyone who passes this exam to obtains the CompTIA Cloud Essentials™ Professional certificate.

The ubiquity of technology has not only brought the need for computer knowledge to every aspect of the modern business world; it has also increased our need to safely store the data we are now creating at a rate never experienced before. *Delivery and Adoption of Cloud Computing Services in Contemporary Organizations* brings together the best practices for storing massive amounts of data. Highlighting ways cloud services can work effectively in production and in real time, this book is an essential reference source for professionals and academics of various disciplines, such as computer science, consulting, information technology, information and communication sciences, healthcare, and finance. Cloud computing represents a sea change in the delivery of IT-dependent business services...but how does it shape enterprise priorities and actions? In *The Death of Core Competency*, Michael O'Neil argues that in the 'day of cloud', the key issue is the ability to apply cloud-based automation within each task and across all processes, creating an entirely new enterprise operating model. Executives who focus on a handful of core competencies will be eclipsed by firms led by management that is in tune with the efficiency gains, the expanded reach and the improved business insight delivered by cloud business infrastructure. *The Death of Core Competency* also includes a 12-step guide to building a strategic framework for deploying cloud-based business capabilities, experience-based insight and practical guidance on business planning and cloud adoption, and an analysis of what staff members, IT management and corporate executives need to understand – and do – to capitalize on the zero-friction future.

CSA Guide to Cloud Computing brings you the most current and comprehensive understanding of cloud security issues and deployment techniques from industry thought leaders at the Cloud Security Alliance (CSA). For many years the CSA has been at the forefront of research and analysis into the most pressing security and privacy related issues associated with cloud computing. *CSA Guide to Cloud Computing* provides you with a one-stop source for industry-leading content, as well as a roadmap into the future considerations that the cloud presents. The authors of *CSA Guide to Cloud Computing* provide a wealth of industry expertise you won't find anywhere else. Author Raj Samani is the Chief Technical Officer for McAfee EMEA; author Jim Reavis is the Executive Director of CSA; and author Brian Honan is recognized as an industry leader in the ISO27001 standard. They will walk you through everything you need to understand to implement a secure cloud computing structure for your enterprise or organization. Your one-stop source for comprehensive understanding of cloud security from the foremost thought leaders in the industry Insight into the most current research on cloud privacy and security, compiling information from

CSA's global membership Analysis of future security and privacy issues that will impact any enterprise that uses cloud computing Computing Handbook, Third Edition: Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines. The second volume of this popular handbook explores their close links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments. Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in-depth perspectives on the contributions of academic research to the practice of IS and IT development, use, and management Like the first volume, this second volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century. Adopting a multi-disciplinary and comparative approach, this book focuses on emerging and innovative attempts to tackle privacy and legal issues in cloud computing, such as personal data privacy, security and intellectual property protection. Leading i

This book constitutes the proceedings of the 15th International Conference on Service-Oriented Computing, ICSOC 2017, held in malaga, Spain, in November 2017. The 33 full papers presented together with 20 short papers and 4 keynotes in this volume were carefully reviewed and selected from 179 submissions. The selected papers cover a wide variety of 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. The chapter "Risk-based Proactive Process Adaptation" is available open access under a CC BY 4.0 license via link.springer.com.

Continuous improvements in data analysis and cloud computing have allowed more opportunities to develop systems with user-focused designs. This not only leads to higher success in day-to-day usage, but it increases the overall probability of technology adoption. Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications is a key resource on the latest innovations in cloud database systems and their impact on the daily lives of people in modern society. Highlighting multidisciplinary studies on information storage and retrieval, big data architectures, and artificial intelligence, this publication is an ideal reference source for academicians, researchers, scientists, advanced level students, technology developers and IT officials.

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