

Online Library Cloud
Computing Gartner Inc

Cloud Computing Gartner Inc

This volume comprises research papers
presented at the International Conference
on Informatics and Communication
Technologies for Societal Development

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(ICICTS 2014) held at Karunya University, India. The content focuses on the recent advancements in image or signal processing, computer vision, communication technologies, soft computing, advanced computing, data mining and knowledge discovery. The primary objective of this volume is to

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facilitate advancement and application of the knowledge and to promote ideas that solve problems faced by society through cutting-edge technologies. The chapters contain selected articles from academicians, researchers and industry experts in the form of frameworks, models and architectures. Practical approaches,

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observations and results of research that promotes societal development are also incorporated. This volume will serve as a useful compendium for interested readers and researchers working towards societal development from the technological perspective.

This book captures the state of the art in

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cloud technologies, infrastructures, and service delivery and deployment models. The work provides guidance and case studies on the development of cloud-based services and infrastructures from an international selection of expert researchers and practitioners. Features: presents a focus on security and access

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control mechanisms for cloud environments, analyses standards and brokerage services, and investigates the role of certification for cloud adoption; evaluates cloud ERP, suggests a framework for implementing “big data” science, and proposes an approach for cloud interoperability; reviews existing

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elasticity management solutions, discusses the relationship between cloud management and governance, and describes the development of a cloud service capability assessment model; examines cloud applications in higher education, including the use of knowledge-

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and cloud-based e-learning for students with disabilities.

Present trends in cloud providers (CPs) capabilities have given rise to the interest in federating or collaborating clouds, thus allowing providers to revel on an increased scale and reach more than that is achievable individually. Current research

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efforts in this context mainly focus on building supply chain collaboration (SCC) models, in which CPs leverage cloud services from other CPs for seamless provisioning. Nevertheless, in the near future, we can expect that hundreds of CPs will compete to offer services and thousands of users will also compete to

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receive the services to run their complex heterogeneous applications on a cloud computing environment. In this open federation scenario, existing collaboration models (i.e. SCC) are not applicable since they are designed for static environments where a-priori agreements among the parties are needed to establish the

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federation. To move beyond these shortcomings, Dynamic Cloud Collaboration Platform establishes the basis for developing dynamic, advanced and efficient collaborative cloud service solutions that are scalable, high performance, and cost effective. We term the technology for inter-connection and

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inter-operation of CPs in open cloud federation as Dynamic Cloud Collaboration (DCC), in which various CPs (small, medium, and large) of complementary service requirements will collaborate dynamically to gain economies of scale and enlargements of their capabilities to meet quality of service

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(QoS) requirements of consumers. In this context, this book addresses four key issues - when to collaborate (triggering circumstances), whom to collaborate with (suitable partners), how to collaborate (architectural model), and how to demonstrate collaboration applicability (simulation study). It also provides

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solutions, which are effective in real environments.

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

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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

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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

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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

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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, IBKai HwangM SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers.

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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.

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Concepts, Methodologies, Tools, and
Applications

Service-Driven Approaches to

Architecture and Enterprise Integration

How Do Firms Derive Value from Cloud
Computing Investment?

Briggs

Alternative Business-to-Business Revenue

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Models

Handbook of Research on

Multidisciplinary Approaches to

Entrepreneurship, Innovation, and ICTs

***Modern society requires
a specialized,
persistent approach to***

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***IT service delivery.
Cloud computing offers
the most logical answer
through a highly dynamic
and virtualized resource
made available by an
increasing number of***

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***service providers.
Advanced Research on
Cloud Computing Design
and Applications shares
the latest high quality
research results on
cloud computing and***

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explores the broad applicability and scope of these trends on an international scale, venturing into the hot-button issue of IT services evolution and

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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

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***field of cloud
computing, as well as a
guide for students,
academics, or anyone
seeking to learn more
about advancement in IT
services. This***

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***publication features
chapters covering a
broad range of relevant
topics, including cloud
computing for e-
government, cloud
computing in the public***

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sector, security in the cloud, hybrid clouds and outsourced data, IT service personalization, and supply chain in the cloud.

The primary purpose of

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***this book is to capture
the state-of-the-art in
Cloud Computing
technologies and
applications. The book
will also aim to
identify potential***

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research directions and technologies that will facilitate creation a global market-place of cloud computing services supporting scientific, industrial, business,

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and consumer applications. We expect the book to serve as a reference for larger audience such as systems architects, practitioners,

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***developers, new
researchers and graduate
level students. This
area of research is
relatively recent, and
as such has no existing
reference book that***

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***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***

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***increasing interest to
commercial developers.
The book is targeted for
professional computer
science developers and
graduate students
especially at Masters***

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***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***

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*the next 20 years, its
knowledge will help
position our readers at
the forefront of the
field.*

*The ubiquity of
technology has not only*

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***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***

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*creating at a rate never
experienced before.
Delivery and Adoption of
Cloud Computing Services
in Contemporary
Organizations brings
together the best*

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***practices for storing
massive amounts of data.
Highlighting ways cloud
services can work
effectively in
production and in real
time, this book is an***

Online Library Cloud
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***essential reference
source for professionals
and academics of various
disciplines, such as
computer science,
consulting, information
technology, information***

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*and communication
sciences, healthcare,
and finance.*

*This volume constitutes
the proceedings of the
11th International
Conference on Cloud*

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***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***

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together with 3 short papers were carefully reviewed and selected from 108 submissions. They are organized in topical sections such as cloud computing; client-

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***server architectures;
distributed systems
organizing principles;
storage virtualization;
virtual machines; cloud
based storage;
distributed***

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*architectures; network
services; and computing
platforms.*

*Computing Handbook,
Third Edition*

*Delivery and Adoption of
Cloud Computing Services*

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***in Contemporary
Organizations
Web-Based Services:
Concepts, Methodologies,
Tools, and Applications
Future Outlooks and
Interdisciplinary***

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Perspectives

Enterprise Cloud epUB _1

Cloud Computing Basics

Part of the Jones & Bartlett Learning
Information Systems Security and
Assurance Series Revised and
updated to address the many changes

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in this evolving field, the Second Edition of Legal Issues in Information Security addresses the area where law and information security concerns intersect. Information systems security and legal compliance are now required to protect critical governmental and corporate infrastructure, intellectual

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property created by individuals and organizations alike, and information that individuals believe should be protected from unreasonable intrusion. Organizations must build numerous information security and privacy responses into their daily operations to protect the business itself, fully meet

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legal requirements, and to meet the expectations of employees and customers. Instructor Materials for Legal Issues in Information Security include: PowerPoint Lecture Slides
Instructor's Guide Sample Course Syllabus Quiz & Exam Questions
Case Scenarios/Handouts New to the

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Second Edition: Includes discussions of amendments in several relevant federal and state laws and regulations since 2011 Reviews relevant court decisions that have come to light since the publication of the first edition Includes numerous information security data breaches highlighting

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new vulnerabilities"

PART OF THE NEW JONES &
BARTLETT LEARNING
INFORMATION SYSTEMS
SECURITY & ASSURANCE SERIES!
Legal Issues in Information Security
addresses the area where law and
information security concerns

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intersect. Information systems security and legal compliance are now required to protect critical governmental and corporate infrastructure, intellectual property created by individuals and organizations alike, and information that individuals believe should be protected from unreasonable intrusion.

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Organizations must build numerous information security and privacy responses into their daily operations to protect the business itself, fully meet legal requirements, and to meet the expectations of employees and customers. Part 1 of this book discusses fundamental security and

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privacy concepts. Part 2 examines recent US laws that address information security and privacy. And Part 3 considers security and privacy for organizations.

Cloud computing has quickly become the next big step in security development for companies and

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institutions all over the world. With the technology changing so rapidly, it is important that businesses carefully consider the available advancements and opportunities before implementing cloud computing in their organizations. The Handbook of Research on Security Considerations in Cloud

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Computing brings together discussion on current approaches to cloud-based technologies and assesses the possibilities for future advancements in this field. Highlighting the need for consumers to understand the unique nature of cloud-delivered security and to evaluate the different aspects of this

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service to verify if it will meet their needs, this book is an essential reference source for researchers, scholars, postgraduate students, and developers of cloud security systems. How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your

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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

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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.

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Computing Handbook
First International Conference,
CloudCom 2009, Beijing, China,
December 1-4, 2009, Proceedings
Measuring the Business Value of
Cloud Computing
Cloud Computing Security
Principles and Paradigms

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A Guide for Buyers, Vendors and
Investors

Recent advances in internet
architecture have led to the advent
and subsequent explosion of cloud
computing technologies, providing
businesses with a powerful toolbox

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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

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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

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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.

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In this book, contributors provide insights into the latest developments of Edge Computing/Mobile Edge Computing, specifically in terms of communication protocols and related applications and

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architectures. The book provides help to Edge service providers, Edge service consumers, and Edge service developers interested in getting the latest knowledge in the area. The book includes relevant Edge Computing topics such as

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applications; architecture; services; inter-operability; data analytics; deployment and service; resource management; simulation and modeling; and security and privacy. Targeted readers include those from varying disciplines who are

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interested in designing and
deploying Edge Computing.
Features the latest research related
to Edge Computing, from a variety
of perspectives; Tackles Edge
Computing in academia and
industry, featuring a variety of new

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and innovative operational ideas;
Provides a strong foundation for
researchers to advance further in
the Edge Computing domain.
The emergence of cloud computing
(CC) represents a fundamental
change in the way information

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technology (IT) services are designed and delivered. Gartner, Inc. a technology research company, predicts that IT spending will steadily shift from traditional IT to CC from 2016 through 2020, making CC one of the most

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disruptive forces in IT spending since the early days of the digital age. In spite of the growth in investing in CC, our understanding of the role of IT governance in the process of deriving business value from CC investment is limited.

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Therefore, this dissertation determines the relationship between IT governance and value derived from CC investment by first conceptualizing the IT governance and its role in creating business value from IT investment. Then, a

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research model is developed and a survey is designed and validated to investigate the relationship between IT governance mechanism and CC business value. The research model is examined using data collected from 250 US

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organizations that have invested in CC for more than one year. The result of this dissertation contributes in three areas. First, it shows that IT governance mechanisms (structural, procedural, and relational mechanisms) are

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important antecedents of the business value that a firm can achieve from investing in CC. Second, the business value achieved from CC investment enhances organizational performance. Lastly, the CC service

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model types attenuate the positive effect of IT governance mechanism on business value, and the weakening effect is stronger for software as a service than for platform as a service and for infrastructure as a service. By

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providing a decision-making guideline to help organizations be successful in CC investment while achieving maximum benefits, the dissertation provides implications for practice.

As the Web grows and expands

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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

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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

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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.

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Software Business. From Physical
Products to Software Services and
Solutions

Gartner and the Magic Quadrant
Industry Trends in Cloud
Computing
Two-Volume Set

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Handbook of Research on End-to-End Cloud Computing Architecture Design

Information Systems and
Information Technology

The commercial exploitation of
distributed computing

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technologies is slowly starting to become popular under the general area of cloud computing. These solutions allow selling and buying of resources (i.e., computing, network, software, and data resources) on demand. Existing solutions in this area are

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diverse, ranging from Infrastructure-- a-Service (IaaS) models via Platform-as-a-Service (PaaS) to Software-as-a-Service (SaaS) models. Although the economics of these services is not yet fully understood and the interoperability between such

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services is still lacking, a common market for computing services is slowly developing. Such a market would allow buyers and sellers of computing services to trade their excess capacity or make available their capacity at a cost. However, it is

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still not possible for a market participant to act as a resource provider or seller, or trade based on the current level of demand. Another example of a developing open market is the emergence of Web2.0-based services. These enable consumers to create new

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services by aggregating services from multiple providers. The benefit of these solutions is that “value” can be created by combining services at different prices.

Exploring the Cloud Computing (CC) commercial landscape as it

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matures; this book asserts that the key ingredient in sustaining the Software as a Service (SaaS) business model is subscription renewal. Chronicling the evolution and future trajectory of the CC concept, the authors examine the new paradigm it is

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creating for the distribution of computer software applications among business-to-business (B2B) clients. CC enabled SaaS has been fundamentally changing the revenue expectations and business model for the application software industry,

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and impacting on how SaaS providers pursue, acquire and retain B2B clients. Securing SaaS subscription renewal is critical to the survival and prosperity of this business as attrition can have a significant impact on the financial viability of SaaS

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businesses based on this model. Focusing on the B2B client and the SaaS industry dependency on renewal subscriptions delivered through the CC channel, the primary research presented in this book seeks to examine the key drivers behind the B2B SaaS

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subscription renewal decision and, in doing so, to explore the recurring revenue framework for the Cloud SaaS business.

The new edition of a bestseller, Information Technology Control and Audit, Fourth Edition provides a comprehensive and up-

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to-date overview of IT
governance, controls, auditing
applications, systems
development, and operations.
Aligned to and supporting the
Control Objectives for
Information and Related
Technology (COBIT), it examines

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emerging trend

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

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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

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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

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of information for software architects, SOA practitioners, and software engineers as well as researchers and students in pursuit of extensible and agile software design.

Information Technology Control
and Audit

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Examining the Role of IT
Governance

Northwestern Journal of
Technology & Intellectual
Property, Vol. 9, No. 2

Analysis of TCP Performance in
Data Center Networks
Handbook of Research on High

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Performance and Cloud
Computing in Scientific Research
and Education

Enterprise Management
Strategies in the Era of Cloud
Computing

Currently, most

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organizations are dependent on IS/ICT in order to support their business strategies. IS/ICT can promote the implementation of strategies and enhancers

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of optimization of the various aspects of the business. In market enterprises and social organizations, digital economy and ICTs are important tools that can

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*empower social
entrepreneurship
initiatives to develop,
fund, and implement new
and innovative solutions
to social, cultural, and
environmental problems.*

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*The Handbook of Research
on Multidisciplinary
Approaches to
Entrepreneurship,
Innovation, and ICTs is
an essential reference
source that discusses*

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*the digitalization
techniques of the modern
workforce as well as
important tools
empowering social
entrepreneurship
initiatives. Featuring*

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research on topics such as agile business analysis, multicultural workforce, and human resource management, this book is ideally designed for business

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*managers, entrepreneurs,
IT consultants,
researchers, industry
professionals, human
resource consultants,
academicians, and
students.*

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*This two volume set of
the Computing Handbook,
Third Edition
(previously the Computer
Science Handbook)
provides up-to-date
information on a wide*

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*range of topics in
computer science,
information systems
(IS), information
technology (IT), and
software engineering.
The third edition of*

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*this popular handbook
addresses not only the
dramatic growth of
computing as a
discipline but also the
relatively new
delineation of computing*

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as a family of separate disciplines as described by the Association for Computing Machinery (ACM), the IEEE Computer Society (IEEE-CS), and the Association for

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*Information Systems
(AIS). Both volumes in
the set describe what
occurs in research
laboratories,
educational
institutions, and public*

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*and private
organizations to advance
the effective
development and use of
computers and computing
in today's world.
Research-level survey*

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articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing

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*education, research, and
development in the
twenty-first century.
Chapters are organized
with minimal
interdependence so that
they can be read in any*

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order and each volume contains a table of contents and subject index, offering easy access to specific topics. The first volume of this popular handbook

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*mirrors the modern
taxonomy of computer
science and software
engineering as described
by the Association for
Computing Machinery
(ACM) and the IEEE*

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Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, it examines the elements involved in designing

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and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current

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*understanding of
software engineering and
its effect on the
practice of software
development and the
education of software
professionals. The*

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second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines. The book explores their close

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links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments.

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*Established leading
experts and influential
young researchers
present introductions to
the current status and
future directions of
research and give in-*

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*depth perspectives on
the contributions of
academic research to the
practice of IS and IT
development, use, and
management.*

Cloud

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*Computing Principles and
Paradigms John Wiley &
Sons*

*Software applications
once held on local
computers and servers
are beginning to shift*

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*to the public Internet
sphere, and private
health information is no
exception. The
likelihood of placing
once restricted and
private health records*

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“in the cloud” is increasing. Cloud Computing Applications for Quality Health Care Delivery focuses on cloud technologies that could affect quality in

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*the healthcare field.
Leading experts in this
area offer their
knowledge and contribute
to the demystification
of healthcare in the
Cloud. This publication*

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*will prove to be a
useful tool for
undergraduate and
graduate students of
healthcare quality and
management, healthcare
managers, and industry*

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*professionals.
Dynamic Cloud
Collaboration Platform
From Hype to Reality
Grid and Cloud
Computing: Concepts,
Methodologies, Tools and*

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*Applications
Pervasive Cloud
Computing Technologies:
Future Outlooks and
Interdisciplinary
Perspectives
Analysis of Applications*

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*and Success Factors of
Cloud Computing for
Small- and Medium-sized
Businesses
Concepts, Methodologies,
Tools and Applications*

The recent explosion of

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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

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those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. Web-Based Services: Concepts,

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Methodologies, Tools, and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The

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chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global

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network, providing
researchers, computer
scientists, web
developers, and digital
experts with the latest
knowledge and developments
in Internet technologies.

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"This reference presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Grid and Cloud

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Computing"--

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

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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

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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

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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

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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

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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

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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

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analysts Understand
Gartner's biases and how
Gartner makes money, and
how this impacts its
research results
Appreciate the effects of
cloud computing on

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Gartner, and why it matters to you Choose consulting services with confidence Assess the value of Gartner's other analytical products to your business

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Technology trends may come and go, but cloud computing technologies have been gaining consideration in the commercial world due to its ability to provide on-

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demand access to
resources, control the
software environment, and
supplement existing
systems. Pervasive Cloud
Computing Technologies:
Future Outlooks and

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**Interdisciplinary
Perspectives explores the
latest innovations with
cloud computing and the
impact of these new models
and technologies. This
book will present case**

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studies and research on the future of cloud computing technologies and its ability to increase connectivity of various entities of the world. It is an essential resource

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for technology
practitioners, engineers,
managers, and academics
aiming to gain the
knowledge of these novel
and pervasive
technologies.

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**Economics of Grids,
Clouds, Systems, and
Services**

**Cloud Computing
Advancements in Design,
Implementation, and
Technologies**

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11th International
Conference, Held as Part
of the Services Conference
Federation, SCF 2018,
Seattle, WA, USA, June
25-30, 2018, Proceedings

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Cloud Computing
Applications for Quality
Health Care Delivery
Continued Rise of the
Cloud
Computing Handbook, Third
Edition: Information

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Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines. The second volume of this popular handbook explores their

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close links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments. Established

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leading experts and
influential young
researchers present
introductions to the
current status and future
directions of research and
give in-depth perspectives

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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

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research laboratories,
educational institutions,
and public and private
organizations to advance
the effective development
and use of computers and
computing in today's

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world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive

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computing education,
research, and development
in the twenty-first
century.

The importance of
demonstrating the value
achieved from IT

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investments is long established in the Computer Science (CS) and Information Systems (IS) literature. However, emerging technologies such as the ever-changing

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complex area of cloud computing present new challenges and opportunities for demonstrating how IT investments lead to business value. Recent

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reviews of extant literature highlights the need for multi-disciplinary research. This research should explore and further develops the

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conceptualization of value
in cloud computing
research. In addition,
there is a need for
research which
investigates how IT value
manifests itself across

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the chain of service provision and in inter-organizational scenarios. This open access book will review the state of the art from an IS, Computer Science and Accounting

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perspective, will introduce and discuss the main techniques for measuring business value for cloud computing in a variety of scenarios, and illustrate these with mini-

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case studies.

This book constitutes the reviewed proceedings of the first International Conference on Cloud Computing, CloudCom 2009, held in Beijing, China,

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December 1-4, 2009. The 42 full papers presented together with four invited papers were carefully selected from 200 submissions. This book includes but are not

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limited to deal with
topics like cloud /grid
architecture, load
balancing, optimal deploy
configuration, consistency
models, virtualization
technologies, middleware

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frameworks, software as a Service (SaaS), hardware as a Service (HaaS), data grid & semantic web, web services, security and Risk, fault tolerance and reliability, auditing,

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monitoring and scheduling,
utility computing, high-
performance computing and
peer to peer computing.
Cloud computing is gaining
in importance in the
industry, and especially

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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

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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.

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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

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of cloud computing services are analyzed based on the empirical investigation performed as part of this work. Finally, the benefits and constraints of the

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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

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important results.

4th International
Conference, ICSOB 2013,
Potsdam, Germany, June
11-14, 2013, Proceedings
Managing Computer Systems
in the 21st Century

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Foundations and Challenges
Cloud Computing for
Machine Learning and
Cognitive Applications
Cloud Computing – CLOUD
2018
Edge Computing

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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

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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

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architecture to implementation. This book is a comprehensive publication ideal for programmers, IT professionals, students, researchers, and engineers.

Cloud computing has revolutionized computer systems, providing greater dynamism and flexibility to a variety of operations. It can help businesses quickly

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and effectively adapt to market changes, and helps promote users' continual access to vital information across platforms and devices. Cloud Computing Advancements in Design, Implementation, and Technologies outlines advancements in the state-of-the-art, standards, and practices of cloud computing, in an effort to

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identify emerging trends that will ultimately define the future of the cloud. A valuable reference for academics and practitioners alike, this title covers topics such as virtualization technology, utility computing, cloud application services (SaaS), grid computing, and services computing.

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This book is intended for business executives and managers responsible for the strategy and direction of their company's IT systems. This may be a board member, the CEO, or other senior executive. It provides a guide to assessing the value and risks of current computer systems, and the value of your current IT

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staff and organization. It makes recommendations on how to build a long term strategic plan for your enterprise to insure that IT and your systems meet your business objectives and goals.

This book addresses the need to improve TCP's performance inside data centers by providing solutions that are both practical

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and backward compatible with standard TCP versions. The authors approach this challenge first by deriving an analytical model for TCP's performance under typical data center workload traffic. They then discuss some solutions that are designed to improve TCP performance by either proactively detecting network

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congestion through probabilistic retransmission or by avoiding timeout penalty through dynamic resizing of TCP segments. Experimental results show that each of techniques discussed outperforms standard TCP inside a data center.

*A Market-Oriented Approach
Cloud Technology: Concepts,*

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*Methodologies, Tools, and Applications
Cloud Computing*

*Advanced Research on Cloud Computing
Design and Applications*

*Handbook of Research on Security
Considerations in Cloud Computing*

Advances and Trends in Cloud Computing

As information systems used for

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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

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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

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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

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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

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scientific research.

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

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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

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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

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Payment Card Industry.

This book contains the refereed proceedings of the 4th International Conference on Software Business (ICSOB) held in Potsdam, Germany, in June 2013. The theme of the event was "From Physical

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Products to Software Services and Solutions." The 15 full papers, seven short papers, and six doctoral symposium papers accepted for IC SOB were selected from 44 submissions and are organized in sections on: software business

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models and business process modeling; IT markets and software industry; IT within organizations; software product management; cloud computing; entrepreneurship and startup companies; software platforms and software ecosystems;

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and doctoral symposium.

This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues. As

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more organizations use cloud computing and cloud providers for data operations, the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes. Research

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efforts from academia and industry as conducted and reported by experts in all aspects of security related to cloud computing are gathered within one reference guide.

Features • Covers patching and configuration vulnerabilities of a

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cloud server • Evaluates methods for data encryption and long-term storage in a cloud server • Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R.

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Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage, computer security, and aerospace technology. John was also a configuration management

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specialist, computer specialist, and the computer security official (CSO) for NASA ' s space station program (Freedom) and the International Space Station Program from 1988 until his 1995 retirement from NASA.

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7th International Workshop,
GECON 2010, Ischia, Italy, August
31, 2010, Proceedings
Informatics and Communication
Technologies for Societal
Development
Legal Issues in Information Security

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Proceedings of ICICTS 2014