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CARINA CUEVAS

**SDN, NFV, QoE, IoT,
and Cloud** Springer
Nature

In bringing to the readers the book 5G Multimedia Communication: Technology, Multiservices and Deployment, the aim is to present current work and direction on the challenging subject of multimedia communications, with theoretical and practical roots. The past two decades have witnessed an extremely fast evolution of mobile cellular network technology. The fifth generation of mobile wireless systems has achieved the first milestone toward finalization and deployment by 2020. This is vital to the development of future multimedia communications. Also, it is necessary to consider 5G technology

from the performance point of view by analyzing network capabilities to the operator and to the end user in terms of data rate, capacity, coverage, energy efficiency, connectivity and latency. The book is divided into three major parts with each part containing four to seven chapters:

- Critical enabling technology
- Multiservices network
- Deployment scenarios

The first part discusses enabling technologies, such as green communication, channel modeling, massive and distributed MIMO and ML-based networks. In the second part, different methodologies and standards for multiservices have been discussed.

Exclusive chapters have been dedicated to each of the open research challenges such as multimedia operating in 5G environment, network slicing optimization, mobile edge computing, mobile video multicast/broadcast, integrated satellite and drone communication. The third part paved the way to deployment scenarios for different innovative services including integration of a multienergy system in smart cities, intelligent transportation systems, 5G connectivity in the transport sector, healthcare services, 5G edge-based video surveillance and challenges of connectivity for massive IoT in 5G and

beyond systems. The book is written by experts in the field who introduced scientific and engineering concepts, covering the 5G multimedia communication areas. The book can be read cover-to-cover or selectively in the areas of interest for the readers. Generally, the book is intended for novel readers who could benefit from understanding general concepts, practitioners who seek guidance into the field and senior-level as well as graduate-level engineering students in understanding the process of today's wireless multimedia communications. *Implement New Business Models, Disrupt Competitors, Transform Your Industry* IGI Global

This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2019), held at the University of Liberal Arts Bangladesh (ULAB), Dhaka, on 25-26 October 2019 and jointly organized by the University of Liberal Arts Bangladesh (ULAB), Bangladesh; Jahangirnagar University (JU), Bangladesh; and South Asian University (SAU), India. These proceedings present novel contributions in the areas of computational intelligence, and offer valuable reference material for advanced research. The topics covered include collective intelligence,

soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.

The Brand-Driven

CEO BoD – Books on Demand

Digitization and Artificial Intelligence are at the center of every board room conversation these days. Most CEOs, senior management and boards are less worried about their traditional competitors. The impact of disruption through digitization is real and quantifiable – 52% of Fortune 500 companies have been replaced since 2000. The task of enabling new digital business models gets exponentially harder as

the complexity of systems are greater. Most CIOs, CTOs are struggling with when to start, what to do, and how to meet the expectations of their CEOs and Boards. Design patterns help narrow this gap by documenting a well-working solution to a problem that occurs repeatedly in a given context. "Enterprise Digitization Patterns" breaks down digital disruption enablers and delivers a cookbook across three key pillars - Digital Experience, Enterprise IoT and Autonomous Systems. The book provides reference architectures, design patterns, maturity models and practical case studies to drive new forms of customer value, business outcomes and business

models. The design patterns are distinct or relevant to modern-day enterprise digital platforms that enables enterprise digital business models.

Design of Secure IoT Systems: A Practical Approach Across Industries Springer Nature

The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better ways to manage and secure them. With the Cisco Digital Network Architecture, network operators can run entire network fabrics as a single, programmable system by defining rules that span their devices and move with their users. Using Cisco intent-based networking, you

spend less time programming devices, managing configurations, and troubleshooting problems so you have more time for driving value from your network, your applications, and most of all, your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions. Combining insider information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together authoritative insights for multiple business

and technical audiences. Senior executives will learn how DNA can help them drive digital transformation for competitive advantage. Technical decision-makers will discover powerful emerging solutions for their specific needs. Architects will find essential recommendations, interdependencies, and caveats for planning deployments. Finally, network operators will learn how to use DNA Center's modern interface to streamline, automate, and improve virtually any network management task. · Accelerate the digital transformation of your business by adopting an intent-based network architecture that is open, extensible, and

programmable · Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business opportunities · Dive deep into hardware, software, and protocol innovations that lay the programmable infrastructure foundation for DNA · Virtualize advanced network functions for fast, easy, and flexible deployments · Translate business intent into device configurations and simplify, scale, and automate network operations using controllers · Use analytics to tune performance, plan capacity, prevent threats, and simplify troubleshooting · Learn how Software-Defined Access improves

network flexibility, security, mobility, visibility, and performance · Use DNA Assurance to track the health of clients, network devices, and applications to reveal hundreds of actionable insights · See how DNA Application Policy supports granular application recognition and end-to-end treatment, for even encrypted applications · Identify malware, ransomware, and other threats in encrypted traffic
Technologies and Applications Shaping the Future Springer Nature
Information Technology for Management, 12 Edition provides students with a comprehensive understanding of the latest technological

developments in IT and the critical drivers of business performance, growth, and sustainability. Integrating feedback from IT managers and practitioners from top-level organizations worldwide, the newest edition of this well-regarded textbook features thoroughly revised content throughout to present students with a realistic, up-to-date view of IT management in the current business environment. The text offers a flexible, student-friendly presentation of the material through a pedagogy that is designed to help students with different learning styles easily comprehend and retain information. This blended learning approach combines

visual, textual, and interactive content—featuring numerous real-world case studies of how businesses use IT to increase efficiency and productivity, strengthen collaboration and communication, and maximize their competitive advantage. Students learn how IT is leveraged to reshape enterprises, engage and retain customers, optimize systems and processes, manage business relationships and projects, and more.

Security and Privacy in Communication

Networks John Wiley & Sons

Connecting Networks v6 Companion Guide is the official supplemental textbook for the Connecting

Networks version 6 course in the Cisco Networking Academy CCNA Routing and Switching curriculum. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course:

Chapter Objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter. **Key Terms**—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. **Glossary**—Consult the comprehensive Glossary with 347

terms. **Summary of Activities and Labs**—Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. **Check Your Understanding**—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. **How To**—Look for this icon to study the steps you need to learn to perform certain tasks. **Interactive Activities**—Reinforce your understanding of topics with dozens of exercises from the online course identified throughout the book with this icon. **Packet Tracer Activities**—Explore and

visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters and provided in the accompanying Labs & Study Guide book. Videos—Watch the videos embedded within the online course. Hands-on Labs—Work through all the course labs and additional Class Activities that are included in the course and published in the separate Labs & Study Guide.

Delivering Advanced Security Capabilities from Edge to Cloud for IoT Springer
Wireless sensor networks are penetrating our daily lives, and they are starting to be deployed even in an industrial environment. The research on such

industrial wireless sensor networks (IWSNs) considers more stringent requirements of robustness, reliability, and timeliness in each network layer. This Special Issue presents the recent research result on industrial wireless sensor networks. Each paper in this Special Issue has unique contributions in the advancements of industrial wireless sensor network research and we expect each paper to promote the relevant research and the deployment of IWSNs.

5G Multimedia Communication

Springer Nature
This book constitutes the refereed conference proceedings of the 12th International

Conference on Security and Privacy in Communications Networks, SecureComm 2016, held in Guangzhou, China, in October 2016. The 32 revised full papers and 18 poster papers were carefully reviewed and selected from 137 submissions. The papers are organized thematically starting with mobile and network security, followed by applied cryptography, web security and privacy, system security, hardware security. The volume also includes papers from the ATCS workshop and the poster session.

Proceedings of International Joint Conference on Computational Intelligence Oxford University Press

Collectively, the world's billions of poor people have immense untapped buying power. Prahalad's global bestseller shows why companies can't afford to ignore "Bottom of the Pyramid" (BOP) markets. Now available in paperback, it offers a blueprint for driving the radical innovation companies will need to profit in emerging markets, and using those innovations to become more competitive everywhere.

Proceedings of the International Conference on Artificial Intelligence and Computer Vision (AICV2021) CRC Press

This book constitutes the refereed post-conference proceedings of the Third International

Conference on Interoperability, InterIoT 2017, which was collocated with SaSelIoT 2017, and took place in Valencia, Spain, in November 2017. The 14 revised full papers were carefully reviewed and selected from 22 submissions and cover all aspects of the latest research findings in the area of Internet of Things (IoT).

IoT Fundamentals

Cisco Press

In the ever-evolving telecommunication industry, smart mobile computing devices have become increasingly affordable and powerful, leading to significant growth in the number of advanced mobile users and their bandwidth demands. Due to this increasing need, the next generation of

wireless networks needs to enable solutions to bring together broadband, broadcast, and cellular technologies for global consumers. Paving the Way for 5G Through the Convergence of Wireless Systems provides innovative insights into wireless networks and cellular coexisting solutions that aim at paving the way towards 5G. Through examining data offloading, cellular technologies, and multi-edge computing, it addresses coexistence problems at different levels (i.e., physical characteristics, open access, technology-neutrality, economic characteristics, healthcare, education, energy, etc.), influencing networks to provide solutions for

next generation wireless networks. Bridging research and practical solutions, this comprehensive reference source is ideally designed for graduate-level students, IT professionals and technicians, engineers, academicians, and researchers.

Information Technology for Management

Springer
This book provides an overview of the emerging smart connected world, and discusses the roles and the usage of underlying semantic computing and Internet-of-Things (IoT) technologies. The book comprises ten chapters overall, grouped in two parts. Part I “Smart Connected World: Overview and

Technologies” consists of seven chapters and provides a holistic overview of the smart connected world and its supporting tools and technologies. Part II “Applications and Case Studies” consists of three chapters that describe applications and case studies in manufacturing, smart cities, health, and more. Each chapter is self-contained and can be read independently; taken together, readers get a bigger picture of the technological and application landscape of the smart connected world. This book is of interest for researchers, lecturers, and practitioners in Semantic Web, IoT and related fields. It can serve as a reference for instructors and students taking

courses in hybrid computing getting abreast of cutting edge and future directions of a connected ecosystem. It will also benefit industry professionals like software engineers or data scientists, by providing a synergy between Web technologies and applications. This book covers the most important topics on the emerging field of the smart connected world. The contributions from leading active researchers and practitioners in the field are thought provoking and can help in learning and further research. The book is a valuable resource that will benefit academics and industry. It will lead to further research and advancement of the

field. Bharat K. Bhargava, Professor of Computer Science, Purdue University, United States
Orchestrating and Automating Security for the Internet of Things Cisco Press
 This book comprehensively describes an end-to-end Internet of Things (IoT) architecture that is comprised of devices, network, compute, storage, platform, applications along with management and security components. It is organized into five main parts, comprising of a total of 11 chapters. Part I presents a generic IoT reference model to establish a common vocabulary for IoT solutions. This includes a detailed description of the Internet protocol

layers and the Things (sensors and actuators) as well as the key business drivers to realize the IoT vision. Part II focuses on the IoT requirements that impact networking protocols and provides a layer-by-layer walkthrough of the protocol stack with emphasis on industry progress and key gaps. Part III introduces the concept of Fog computing and describes the drivers for the technology, its constituent elements, and how it relates and differs from Cloud computing. Part IV discusses the IoT services platform, the cornerstone of the solution followed by the Security functions and requirements. Finally, Part V provides a treatment of the topic of connected

ecosystems in IoT along with practical applications. It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT. "Faculty will find well-crafted questions and answers at the end of each chapter, suitable for review and in classroom discussion topics. In addition, the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT, as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future." Dr. Jim Spohrer, IBM "This text provides a very compelling study of the IoT space and achieves

a very good balance between engineering/technology focus and business context. As such, it is highly-recommended for anyone interested in this rapidly-expanding field and will have broad appeal to a wide cross-section of readers, i.e., including engineering professionals, business analysts, university students, and professors.” Professor Nasir Ghani, University of South Florida

CCIE and CCDE Evolving Technologies Study Guide Springer Nature

Integration of IoT (Internet of Things) with big data and cloud computing has brought forward numerous advantages and challenges such as data analytics, integration, and

storage. This book highlights these challenges and provides an integrating framework for these technologies, illustrating the role of blockchain in all possible facets of IoT security. Furthermore, it investigates the security and privacy issues associated with various IoT systems along with exploring various machine learning-based IoT security solutions. This book brings together state-of-the-art innovations, research activities (both in academia and in industry), and the corresponding standardization impacts of 5G as well. Aimed at graduate students, researchers in computer science and engineering, communication

networking, IoT, machine learning and pattern recognition, this book Showcases the basics of both IoT and various security paradigms supporting IoT, including Blockchain Explores various machine learning-based IoT security solutions and highlights the importance of IoT for industries and smart cities Presents various competitive technologies of Blockchain, especially concerned with IoT security Provides insights into the taxonomy of challenges, issues, and research directions in IoT-based applications Includes examples and illustrations to effectively demonstrate the principles, algorithm, applications, and

practices of security in the IoT environment
Networking Technologies, Protocols, and Use Cases for the Internet of Things Springer
Prepare for the evolving technology components of Cisco's revised CCIE and CCDE written exams The changes Cisco made to its expert-level CCIE and CCDE certifications allow candidates to link their core technology expertise with knowledge of evolving technologies that organizations are rapidly adopting, including cloud services, IoT networking, and network programmability. This guide will help you efficiently master and integrate the knowledge of evolving technology that you'll

need to succeed on the revised CCIE and CCDE written examinations. Designed to help you efficiently focus your study, achieve mastery, and build confidence, CCIE and CCDE Evolving Technologies Study Guide focuses on conceptual insight, not mere memorization. Focused specifically on the exams' evolving technologies components, it combines with track-specific Cisco Press certification guides to offer comprehensive and authoritative preparation for advanced Cisco certification. Understand the Internet of Things (IoT) from the perspective of business transformations, connectivity, and security Review

leading IoT architectural models and applications Structure edge, fog, and centralized compute to maximize processing efficiency Recognize behavioral and operational differences between IoT networks and enterprise networks Gain a holistic understanding of public, private, or hybrid cloud environments that use VMs or containers Explore cloud service models, connectivity, security, scalability, and high availability designs. Master modern API-based programmability and automation methods for interacting with diverse network applications and devices Connect with the Cisco DevNet developer community

and other key resources for Cisco network programming

Paving the Way for 5G Through the Convergence of Wireless Systems

Springer Nature

Over the last years, sophisticated policy making propositions for sustainable rural and urban development have been recorded. The smart village and smart city concepts promote a human-centric vision for a new era of technology-driven social innovation. This Special Issue offers a useful overview of the most recent developments in the frequently overlapping fields of smart city and smart village research. A variety of topics including well-being, happiness, security, open democracy, open

government, smart education, smart innovation, and migration have been addressed in this Special Issue. They define the direction for future research in both domains. The organization of the relevant debate is aligned around three pillars: Section A: Sustainable Smart City and Smart Village Research: Foundations • Clustering Smart City Services: Perceptions, Expectations, and Responses • Smart City Development and Residents' Well-Being • Analysis of Social Networking Service Data for Smart Urban Planning Section B: Sustainable Smart City and Smart Village Research: Case Studies on Rethinking Security, Safety, Well-being, and Happiness • Exploring

- a Stakeholder-Based Urban Densification and Greening Agenda for Rotterdam Inner City—Accelerating the Transition to a Liveable Low Carbon City • The Impact of the Comprehensive Rural Village Development Program on Rural Sustainability in Korea • Analyzing the Level of Accessibility of Public Urban Green Spaces to Different Socially Vulnerable Groups of People • Consumers' Preference and Factors Influencing Offal Consumption in the Amathole District Eastern Cape, South Africa • Sustainable Tourism: A Hidden Theory of the Cinematic Image? A Theoretical and Visual Analysis of the Way of St. James • Future Development of Taiwan's Smart Cities from an Information Security Perspective • Towards a Smart and Sustainable City with the Involvement of Public Participation—The Case of Wrocław
- Section C: Sustainable Smart City and Smart Village Research: Technical Issues • Detection and Localization of Water Leaks in Water Nets Supported by an ICT System with Artificial Intelligence Methods as a Way Forward for Smart Cities • A Study of the Public Landscape Order of Xinye Village • Spatio-Temporal Changes and Dependencies of Land Prices: A Case Study of the City of Olomouc • Geographical Assessment of Low-Carbon Transportation Modes: A Case Study from a Commuter

University •
Performance Analysis
of a Polling-Based
Access Control
Combined with the
Sleeping Schema in V2I
VANETs for Smart
Cities.

The Road to

Digitization Cisco

Press

IoT

Fundamentals Networki
ng Technologies,
Protocols, and Use
Cases for the Internet
of Things Cisco Press

Smart Connected

World MDPI

This book is composed
by the papers written
in English and
accepted for
presentation and
discussion at The 2021
International
Conference on
Information
Technology & Systems
(ICITS 21), held at the
Universidad Estatal
Península de Santa

Elena, in Libertad,
Ecuador, between the
10th and the 12th of
February 2021. ICITS is
a global forum for
researchers and
practitioners to present
and discuss recent
findings and
innovations, current
trends, professional
experiences and
challenges of modern
information technology
and systems research,
together with their
technological
development and
applications. The main
topics covered are
information and
knowledge
management;
organizational models
and information
systems; software and
systems modelling;
software systems,
architectures,
applications and tools;
multimedia systems
and applications;

computer networks, mobility and pervasive systems; intelligent and decision support systems; big data analytics and applications; human-computer interaction; ethics, computers & security; health informatics; and information technologies in education.

Third International Conference, ICCISIoT 2020, Tripura, India, December 29-30, 2020, Proceedings

Springer

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

Introduction to Networks Companion Guide v6 is the official supplemental textbook

for the Introduction to Networks course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. The course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use

anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course:

Chapter Objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter

Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter.

Glossary—Consult the comprehensive Glossary with more than 250 terms.

Summary of Activities and Labs—Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check

Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer.

Artificial Intelligence for Autonomous Networks

Cisco Press
This book constitutes the thoroughly refereed proceedings of the 8th International Congress on Telematics and Computing, WITCOM 2019, held in Merida, Mexico, in November 2019. The 31 full papers presented in this volume were carefully reviewed and selected from 78 submissions. The papers are organized in topical sections: GIS & climate change; telematics &

electronics; artificial intelligence & machine learning; software

engineering & education; internet of things; and informatics security.