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AUGUSTUS ANIYA

IoT Fundamentals Springer

IoT Fundamentals Networking Technologies, Protocols, and Use Cases for the Internet of Things Cisco Press

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 Wroclaw 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.

Designing, Building and Deploying Enterprise Digital Solutions Pearson Education India

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

CCNA 200-301 Official Cert Guide Library Cisco Press

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.

Internet of Things from Hype to Reality Springer

Artificial Intelligence for Autonomous Networks introduces the autonomous network by juxtaposing two unique technologies and communities: Networking and AI. The book reviews the technologies behind AI and software-defined network/network function virtualization, highlighting the exciting opportunities to integrate those two worlds. Outlining the new frontiers for autonomous networks, this book highlights their impact and benefits to consumers and enterprise customers. It also explores the potential of the autonomous network for transforming network operation, cyber security, enterprise services, 5G and IoT, infrastructure monitoring and traffic optimization, and finally, customer experience and care. With contributions from leading experts, this book will provide an invaluable resource for network engineers, software engineers, artificial intelligence, and machine

learning researchers.

The Brand-Driven CEO Springer

This revised textbook presents updated material on its core content: an end-to-end IoT architecture that is comprised of devices, network, compute, storage, platform, applications along with management and security components. As with the second edition, it is organized into six main parts: an IoT reference model; fog computing and the drivers; IoT management and applications; smart services in IoT; IoT standards; and case studies. This edition's features include overhaul of the IoT Protocols (Chapter 5) to include an expanded treatment of low-power wide area networks including narrow band IoT (NB-IoT) protocol, updated IoT platforms and capabilities (Chapter 7) to include comparison of commercially available platforms (e.g. AWS IoT Platform, Google Cloud IoT Platform, Microsoft Azure IoT Platform, and PTC ThinkWorx), updated security (Chapter 8) to include approaches for securing IoT devices with examples of IoT devices used in security attacks and associated solutions including MUD and DICE, and finally new Appendix B to include six IoT project detailed for students.

Sustainable Smart Cities and Smart Villages Research University of Toronto Press

In the wake of the Brexit vote and the election of Donald Trump, globalization has found itself increasingly under the microscope. An active international discussion is underway, and the ideological viewpoint that the reversal of globalization and a return to protectionism and isolation will cure the world's ills is touted by many. In the midst of the growing prominence of international interconnectivity and contradicting attention attained by skewed misinformation about global impact, *Global Business* is a straightforward commentary on mega trends in globalization. With insights and observations from academics, practitioners, and practical thinkers from around the world *Global Business* demystifies the economic, social, and cultural impacts of globalism and globalization, and presents a balanced explanation of what is happening and how it affects everyone. It highlights that technology and change are not new, and explores the path taken to reach our current interconnected global state. It encourages a realistic examination of where we are and invites a dialogue on where we can go together.

Wireless Sensor Networks Addison-Wesley Professional

Wireless sensor networks (WSNs) consist of tiny sensors capable of sensing, computing, and communicating. Due to advances in semiconductors, networking, and material science technologies, it is now possible to deploy large-scale WSNs. The advancement in these technologies has not only decreased the deployment and maintenance costs of networks but has also increased the life of networks and made them more rugged. As WSNs become more reliable with lower maintenance costs, they are being deployed and used across various sectors for multiple applications. This book discusses the applications, challenges, and design and deployment techniques of WSNs.

Design of Secure IoT Systems: A Practical Approach Across Industries Cisco Press

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

Artificial Intelligence for Autonomous Networks Springer Nature
 Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Applications covers timely topics, including the neural network (NN), particle swarm optimization (PSO), evolutionary algorithm (GA), fuzzy sets (FS) and rough sets (RS), etc. Furthermore, the book highlights recent research on representative techniques to elaborate how a data-centric system formed a powerful platform for the processing of cloud hosted multimedia big data and how it could be analyzed, processed and characterized by CI. The book also provides a view on how techniques in CI can offer solutions in modeling, relationship pattern recognition, clustering and other problems in bioengineering. It is written for domain experts and developers who want to understand and explore the application of computational intelligence aspects (opportunities and challenges) for design and development of a data-centric system in the context of multimedia cloud, big data era and its related applications, such as smarter healthcare, homeland security, traffic control trading analysis and telecom, etc. Researchers and PhD students exploring the significance of data centric systems in the next paradigm of computing will find this book extremely useful. Presents a brief overview of computational intelligence paradigms and its significant role in application domains Illustrates the state-of-the-art and recent developments in the new theories and applications of CI approaches Familiarizes the

reader with computational intelligence concepts and technologies that are successfully used in the implementation of cloud-centric multimedia services in massive data processing Provides new advances in the fields of CI for bio-engineering application
Proceedings of the International Conference on Artificial Intelligence and Computer Vision (AICV2021) 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
Protocols and Applications John Wiley & Sons

This book presents the 2nd International Conference on Artificial Intelligence and Computer Visions (AICV 2021) proceeding, which took place in Settat, Morocco, from June 28- to 30, 2021. AICV 2021 is organized by the Scientific Research Group in Egypt (SRGE) and the Computer, Networks, Mobility and Modeling Laboratory (IR2M), Hassan 1st University, Faculty of Sciences Techniques, Settat, Morocco. This international conference highlighted essential research and developments in the fields of artificial intelligence and computer visions. The book is divided into sections, covering the following topics: Deep Learning and Applications; Smart Grid, Internet of Things, and Mobil Applications; Machine Learning and Metaheuristics Optimization; Business Intelligence and Applications; Machine Vision, Robotics, and Speech Recognition; Advanced Machine Learning Technologies; Big Data, Digital Transformation, AI and Network Analysis; Cybersecurity; Feature Selection, Classification, and Applications.

SDN, NFV, QoE, IoT, and Cloud Cisco Press

Build secure IoT devices and networks for a wide range of industries This practical guide fully explains the technology behind the Internet of Things, machine-to-machine communication, and automation. Written by a team of experts from leading firms, Design of Secure IoT Systems: A Practical Approach Across Industries covers all aspects of system architecture, protocols, requirements, and design. You will discover how to design and engineer IoT devices and networks with trust and security. The book features industrial automation case studies and simulation examples from a wide range of fields. Coverage includes: IoT architecture and technology fundamentals Connected machines and M2M communication Network protocols and architecture IoT hardware design fundamentals WAN, IP, and MAC configuration IoT data systems design Designing with trust and security Data security policies and regulations Cybersecurity threats and risks Automation Use cases across industries Industry compliance and standards

ICITS 2021, Volume 1 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

IJCCI 2019 McGraw Hill Professional

This book provides an overview of emerging topics in the field of hardware security, such as artificial intelligence and quantum computing, and highlights how these technologies can be leveraged to secure hardware and assure electronics supply chains. The authors are experts in emerging technologies, traditional hardware design, and hardware security and trust. Readers will gain a comprehensive understanding of hardware security problems and how to overcome them through an efficient combination of conventional approaches and emerging technologies, enabling them to design secure, reliable, and trustworthy hardware.

Internet of Things From Hype to Reality CRC Press

This book presents the latest research on Ambient Intelligence including software and applications. Ambient Intelligence (AmI) is a paradigm emerging from Artificial Intelligence, in which

computers are used as proactive tools for assisting people with their day-to-day activities, making everyone's lives more comfortable. Another main concern of AmI originates from the human-computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means of user-friendly interfaces. This field is evolving rapidly, as can be seen in emerging natural language and gesture-based types of interaction. This symposium was jointly organized by the Universidade do Minho, Technical University of Valencia, Hiroshima University, and University of Salamanca. The latest installment was held in Ávila, Spain, from 26th to 28th June 2019. The authors wish to thank the sponsors: IEEE Systems Man and Cybernetics Society, Spain Section Chapter and the IEEE Spain Section (Technical Co-Sponsor), IBM, Indra, Viewnext, Global Exchange, AEPIA, APPIA and AIR Institute.

Information Technology and Systems Springer

Today, billions of devices are Internet-connected, IoT standards and protocols are stabilizing, and technical professionals must increasingly solve real problems with IoT technologies. Now, five leading Cisco IoT experts present the first comprehensive, practical reference for making IoT work. IoT Fundamentals brings together knowledge previously available only in white papers, standards documents, and other hard-to-find sources—or nowhere at all. The authors begin with a high-level overview of IoT and introduce key concepts needed to successfully design IoT solutions. Next, they walk through each key technology, protocol, and technical building block that combine into complete IoT solutions. Building on these essentials, they present several detailed use cases, including manufacturing, energy, utilities, smart+connected cities, transportation, mining, and public safety. Whatever your role or existing infrastructure, you'll gain deep insight what IoT applications can do, and what it takes to deliver them. Fully covers the principles and components of next-generation wireless networks built with Cisco IOT solutions such as IEEE 802.11 (Wi-Fi), IEEE 802.15.4-2015 (Mesh), and LoRaWAN Brings together real-world tips, insights, and best practices for designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts

Intent-based Networking for the Enterprise IoT

Fundamentals Networking Technologies, Protocols, and Use Cases for the Internet of Things

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.

Information Technology for Management MDPI

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.

Connecting Networks v6 Companion Guide IGI Global

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.