

Cisco Kinetic For Cities Parking Solution At A Glance

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Permissionless Innovation: The Continuing Case for Comprehensive Technological Freedom - Adam Thierer 2016-03-15

Will innovators be forced to seek the blessing of public officials before they develop and deploy new devices and services, or will they be generally left free to experiment with new technologies and business models? In this book, Adam Thierer argues that if the former disposition, “the precautionary principle,” trumps the latter, “permissionless innovation,” the result will be fewer services, lower-quality goods, higher prices, diminished economic growth, and a decline in the overall standard of living. When public policy is shaped by “precautionary principle” reasoning, it poses a serious threat to technological progress, economic entrepreneurialism, and long-run prosperity. By contrast, permissionless innovation has fueled the success of the Internet and much of the modern tech economy in recent years, and it is set to power the next great industrial revolution—if we let it.

Nfpa 58 Liquefied Petroleum Gas Code - 2013

TCI - 1996

Official Gazette of the United States Patent Office - United States. Patent Office 1915

E M F Electrical Year Book - 1923

The Hacked World Order - Adam Segal 2016-02-23

In this updated edition of *The Hacked World Order*, cybersecurity expert Adam Segal offers unmatched insight into the new, opaque global conflict that is transforming geopolitics. For more than three hundred years, the world wrestled with conflicts between nation-states, which wielded military force, financial pressure, and diplomatic persuasion to create "world order." But in 2012, the involvement of the US and Israeli governments in Operation "Olympic Games," a mission aimed at disrupting the Iranian nuclear program through cyberattacks, was revealed; Russia and China conducted massive cyber-espionage operations; and the world split over the governance of the Internet. Cyberspace became a battlefield. Cyber warfare demands that the rules of engagement be completely reworked and all the old niceties of diplomacy be recast. Many of the critical resources of statecraft are now in the hands of the private sector, giant technology companies in particular. In this new world order, Segal reveals, power has been well and truly hacked.

The Builder - 1913

Internet of Things Based on Smart Objects - Giancarlo Fortino

2014-04-04

The Internet of Things (IoT) usually refers to a world-wide network of interconnected heterogeneous objects (sensors, actuators, smart devices, smart objects, RFID, embedded computers, etc) uniquely addressable, based on standard communication protocols. Beyond such a definition, it is emerging a new definition of IoT seen as a loosely coupled, decentralized system of cooperating smart objects (SOs). A SO is an autonomous, physical digital object augmented with sensing/actuating, processing, storing, and networking capabilities. SOs are able to sense/actuate, store, and interpret information created within themselves and around the neighbouring external world where they are situated, act on their own, cooperate with each other, and exchange information with other kinds of electronic devices and human users. However, such SO-oriented IoT raises many in-the-small and in-the-large issues involving SO programming, IoT system architecture/middleware and methods/methodologies for the development of SO-based applications. This Book will specifically focus on exploring recent advances in architectures, algorithms, and applications for an Internet of Things based on Smart Objects. Topics appropriate for this Book include, but are not necessarily limited to: - Methods for SO development - IoT Networking - Middleware for SOs - Data Management for SOs - Service-oriented SOs - Agent-oriented SOs - Applications of SOs in Smart Environments: Smart Cities, Smart Health, Smart Buildings, etc. Advanced IoT Projects.

IoT Fundamentals - David Hanes 2017-05-30

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

Internet of Things -

On the occasion of the fifth global IoT day (on April 9, 2015), we analyze the patents in the domain of IoT and categorize them under different layers of the IoT technology stack. This report analyzes the IP portfolios of Ericsson, IBM, LG, Nokia and Qualcomm; and finds the focus areas of their patenting efforts.

Building - 1913

Study and Interpretation of the Chemical Characteristics of Natural Water - John David Hem 2005

The chemical composition of natural water is derived from many different sources of solutes, including gases and aerosols from the atmosphere, weathering and erosion of rocks and soil, solution or precipitation reactions occurring below the land surface, and cultural effects resulting from activities of man. Some of the processes of solution or precipitation of minerals can be closely evaluated by means of principles of chemical equilibrium including the law of mass action and the Nernst equation. Other processes are irreversible and require consideration of reaction mechanisms and rates. The chemical composition of the crustal rocks of the earth and the composition of the ocean and the atmosphere are significant in evaluating sources of solutes in natural fresh water. The ways in which solutes are taken up or

precipitated and the amounts present in solution are influenced by many environmental factors, especially climate, structure and position of rock strata, and biochemical effects associated with life cycles of plants and animals, both microscopic and macroscopic. Taken all together and in application with the further influence of the general circulation of all water in the hydrologic cycle, the chemical principles and environmental factors form a basis for the developing science of natural-water chemistry. Fundamental data used in the determination of water quality are obtained by the chemical analysis of water samples in the laboratory or onsite sensing of chemical properties in the field. Sampling is complicated by changes in composition of moving water and the effects of particulate suspended material. Most of the constituents determined are reported in gravimetric units, usually milligrams per liter or milliequivalents per liter. More than 60 constituents and properties are included in water analyses frequently enough to provide a basis for consideration of the sources from which each is generally derived, most probable forms of elements and ions in solution, solubility controls, expected concentration ranges and other chemical factors. Concentrations of elements that are commonly present in amounts less than a few tens of micrograms per liter cannot always be easily explained, but present information suggests many are controlled by solubility of hydroxide or carbonate or by sorption on solid particles. Chemical analyses may be grouped and statistically evaluated by averages, frequency distributions, or ion correlations to summarize large volumes of data. Graphing of analyses or of groups of analyses aids in showing chemical relationships among waters, probable sources of solutes, areal water-quality regimen, and water-resources evaluation. Graphs may show water type based on chemical composition, relationships among ions, or groups of ions in individual waters or many waters considered simultaneously. The relationships of water quality to hydrologic parameters, such as stream discharge rate or ground-water flow patterns, can be shown by mathematical equations, graphs, and maps. About 75 water analyses selected from the literature are tabulated to illustrate the relationships described, and some of these, along with

many others that are not tabulated, are also utilized in demonstrating graphing and mapping techniques. Relationships of water composition to source rock type are illustrated by graphs of some of the tabulated analyses. Activities of man may modify water composition extensively through direct effects of pollution and indirect results of water development, such as intrusion of sea water in ground-water aquifers. Water-quality standards for domestic, agricultural, and industrial use have been published by various agencies. Irrigation project requirements for water quality are particularly intricate. Fundamental knowledge of processes that control natural water composition is required for rational management of water quality.

Sensors and Actuators in Smart Cities - Mohammad Hammoudeh
2018-05-04

This book is a printed edition of the Special Issue "Sensors and Actuators in Smart Cities" that was published in JSAN

The Age of Surveillance Capitalism - Shoshana Zuboff 2019-01-15
The challenges to humanity posed by the digital future, the first detailed examination of the unprecedented form of power called "surveillance capitalism," and the quest by powerful corporations to predict and control our behavior. In this masterwork of original thinking and research, Shoshana Zuboff provides startling insights into the phenomenon that she has named surveillance capitalism. The stakes could not be higher: a global architecture of behavior modification threatens human nature in the twenty-first century just as industrial capitalism disfigured the natural world in the twentieth. Zuboff vividly brings to life the consequences as surveillance capitalism advances from Silicon Valley into every economic sector. Vast wealth and power are accumulated in ominous new "behavioral futures markets," where predictions about our behavior are bought and sold, and the production of goods and services is subordinated to a new "means of behavioral modification." The threat has shifted from a totalitarian Big Brother state to a ubiquitous digital architecture: a "Big Other" operating in the interests of surveillance capital. Here is the crucible of an unprecedented form of power marked by extreme concentrations of knowledge and free

from democratic oversight. Zuboff's comprehensive and moving analysis lays bare the threats to twenty-first century society: a controlled "hive" of total connection that seduces with promises of total certainty for maximum profit -- at the expense of democracy, freedom, and our human future. With little resistance from law or society, surveillance capitalism is on the verge of dominating the social order and shaping the digital future -- if we let it.

IP-Enabled Energy Management - Rob Aldrich 2010-09-16

Extend Your Energy Management Capabilities Managing energy usage via a company network allows you to create an energy management program that can be scaled company-wide, and this unique book shows you just how to do it. Through step-by-step instruction and real-world case studies drawn from the expert author team's own experience at Cisco, this book lays out an IP-based energy management strategy to optimize resources, dramatically increase energy savings, and significantly reduce your carbon footprint. How do you establish energy management across multiple functions, such as compute, network, and storage while preparing for building infrastructure convergence? How do you set up energy domains on a network? How do you bring this all together into one unified energy program then deploy it, manage it, and measure results? Find the answers in this timely guide. Consider energy in terms of risk, cost, and resource management Gather raw data on where your company is now and set up benchmarking Create strategies across multiple stakeholders and goals, including facilities, IT, security, and sustainability Establish and administer energy domains Review the basics of energy accounting, measure results, and set up reporting See how to make your program sustainable and prepare for the future [Forbes ASAP](#). - 1998

Research Grants Index - National Institutes of Health (U.S.). Division of Research Grants 1972

Electricity - 1893

[Making Smart Cities More Playable](#) - Anton Nijholt 2019-07-23

This book explores the ways in which the broad range of technologies that make up the smart city infrastructure can be harnessed to incorporate more playfulness into the day-to-day activities that take place within smart cities, making them not only more efficient but also more enjoyable for the people who live and work within their confines. The book addresses various topics that will be of interest to playable cities stakeholders, including the human-computer interaction and game designer communities, computer scientists researching sensor and actuator technology in public spaces, urban designers, and (hopefully) urban policymakers. This is a follow-up to another book on Playable Cities edited by Anton Nijholt and published in 2017 in the same book series, *Gaming Media and Social Effects*.

Wireless Sensor and Actuator Networks for Smart Cities - Burak Kantarci 2019-01-15

This book is a printed edition of the Special Issue "Wireless Sensor and Actuator Networks for Smart Cities" that was published in JSAN

Making Cities Resilient - Vishwa Raj Sharma 2019-02-08

As the world has transformed, so have cities. Today, cities are home to 54 percent of the world's population, and by the middle of this century that figure will likely rise to 66 percent. According to the United Nations (UN) Habitat I (1972), Habitat II (1996) and Habitat III (2016) summits, cities are facing many serious challenges, including growing inequality, security concerns and the worsening impacts of climate change.

Uncontrolled urbanization has led to many problems (haphazard growth of areas, emergence of slums, inadequate water and power supply, poor sanitation, shortage of transport and other civic amenities, shrinking green spaces, pollution, crime, and urban disaster risks such as fire, flood, road and industrial accidents, etc.). Worldwide, communities at the international, national and local level are continuously working to improve human habitats. In order to make our planet more sustainable, the UN has moved from the Millennium Development Goals (MDG) to the Sustainable Development Goals (SDG). Among the latter, the aim of SDG 11 is to "...make cities and human settlements inclusive, safe, resilient

and sustainable.” In light of these challenges, various terms have emerged to help understand urban issues. Visualizing the problem, the United Nations program “Making Cities Resilient” is focused on mitigating the disaster risk in urban areas. This book analyzes terms such as: sustainable, resilient, livable, inclusive, smart and world class city, which have emerged in the process of combating urban challenges in today’s world. The book addresses emerging concepts for cities, challenges and potentials, urban environments, health and planning/policies. Covering 14 large cities in India, as well as case studies from Japan, Singapore, Thailand, Malaysia, Poland and Sweden, it provides a regional dimension to and micro-level perspective on urban issues.

The Fourth Industrial Revolution - Klaus Schwab 2017-01-03
World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and

individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Smart City Emergence - Leonidas Anthopoulos 2019-06-15

Smart City Emergence: Cases from Around the World analyzes how smart cities are currently being conceptualized and implemented, examining the theoretical underpinnings and technologies that connect theory with tangible practice achievements. Using numerous cities from different regions around the globe, the book compares how smart cities of different sizes are evolving in different countries and continents. In addition, it examines the challenges cities face as they adopt the smart city concept, separating fact from fiction, with insights from scholars, government officials and vendors currently involved in smart city implementation. Utilizes a sound and systematic research methodology Includes a review of the latest research developments Contains, in each chapter, a brief summary of the case, an illustration of the theoretical context that lies behind the case, the case study itself, and conclusions showing learned outcomes Examines smart cities in relation to climate change, sustainability, natural disasters and community resiliency

The Corporate Directory of US Public Companies 1995 - Elizabeth Walsh 2016-06-11

This valuable and accessible work provides comprehensive information on America's top public companies, listing over 10,000 publicly traded companies from the New York, NASDAQ and OTC exchanges. All companies have assets of more than \$5 million and are filed with the SEC. Each entry describes business activity, 5 year sales, income, earnings per share, assets and liabilities. Senior employees, major shareholders and directors are also named. The seven indices give an unrivalled access to the information.

Overvåkingenskapitalismens tidsalder - Shoshana Zuboff 2021-03-30

Med sine "gratis" tjenester har giganter som Google og Facebook gitt oss

et tilbud vi ikke kunne takke nei til. Til gjengjeld forsyner de seg med enorme mengder data om vår oppførsel og preferanser, som de ganske uforstyrret selger videre til høystbydende. Det er dette Shoshana Zuboff kaller overvåkingskapitalisme, et fenomen som truer med å omforme samfunnet like mye som den industrielle revolusjonen gjorde på 1800-tallet. I overvåkingskapitalismens tid er vi ikke bare konsumenter, vi utgjør selve råvaren. Den skjulte og stadig mer sofistikerte bruken av dataene om oss bidrar ikke bare til å gi oss skreddersydd innhold og reklame. Den er blitt et verktøy til å forutsi og påvirke vår atferd, både som kunder, borgere og som velgere. Og den utgjør en mektig trussel mot så vel demokratiet som vår personlige frihet. Shoshana Zuboff er filosof, sosialpsykolog og professor emerita ved Harvard Business School. Hennes tre tidligere bøker har alle åpnet dører til ny forståelse av hvordan teknologien påvirker mennesket.

[Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications](#) - Vinit Kumar Gunjan 2020-10-17

This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29-30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

[IoT Automation](#) - Jerker Delsing 2017-02-17

This book presents an in-depth description of the Arrowhead Framework and how it fosters interoperability between IoT devices at service level, specifically addressing application. The Arrowhead Framework utilizes SOA technology and the concepts of local clouds to provide required

automation capabilities such as: real time control, security, scalability, and engineering simplicity. Arrowhead Framework supports the realization of collaborative automation; it is the only IoT Framework that addresses global interoperability across multiplet SOA technologies. With these features, the Arrowhead Framework enables the design, engineering, and operation of large automation systems for a wide range of applications utilizing IoT and CPS technologies. The book provides application examples from a wide number of industrial fields e.g. airline maintenance, mining maintenance, smart production, electro-mobility, automative test, smart cities—all in response to EU societal challenges. Features Covers the design and implementation of IoT based automation systems. Industrial usage of Internet of Things and Cyber Physical Systems made feasible through Arrowhead Framework. Functions as a design cookbook for building automation systems using IoT/CPS and Arrowhead Framework. Tools, templates, code etc. described in the book will be accessible through open sources project Arrowhead Framework Wiki at forge.soa4d.org/ Written by the leading experts in the European Union and around the globe.

Research Awards Index - 1979

Immersed in Media - Cheryl Campanella Bracken 2010-04-05

"Over the next few decades, immersive media could fundamentally change the ways humans engage in entertainment, communication, and social interaction. The current volume takes a step towards understanding this potential paradigm shift, combining insights from pioneers of the field of 'presence' with bright young scholars who bring a new perspective." —Jeremy Bailenson, Stanford University, USA "This book provides an indispensable contribution to scholars in communication studies, computer science and psychology interested in the modes of being present in different media, and offers a careful historical and theoretical framework to the state-of-the-art research."—Anna Spagnolli, University of Padova, Italy "Bracken and Skalski have assembled a collection of works from the world's foremost authorities on telepresence, a topic that has gone understudied for years.

Someone has finally assembled a comprehensive volume on the subject. This book is a must not only for those interested in telepresence, but for mass communication scholars of all kinds."—Kenneth A. Lachan, University of Massachusetts, Boston, USA Immersed in Media highlights the increasing significance of telepresence in the media field. With contributions representing diverse disciplines, this volume delves into the topic through considerations of popular media types and their effects on users. Chapters in the work explain how the experience of presence can be affected by media technologies, including television, video games, film, and the Internet. They also discuss how presence experience mediates or moderates commonly studied media effects, such as enjoyment, persuasion, and aggression. These discussions are accompanied by overviews of the current state of presence research and its future. Ultimately, this work establishes the crucial role of telepresence in gaining a complete understanding of the uses and effects of popular media technologies.

Smart Cities For Dummies - Reichental 2020-06-23

Become empowered to build and maintain smarter cities At its core, a smart city is a collection of technological responses to the growing demands, challenges, and complexities of improving the quality of life for billions of people now living in urban centers across the world. The movement to create smarter cities is still in its infancy, but ambitious and creative projects in all types of cities—big and small—around the globe are beginning to make a big difference. New ideas, powered by technology, are positively changing how we move humans and products from one place to another; create and distribute energy; manage waste; combat the climate crisis; build more energy efficient buildings; and improve basic city services through digitalization and the smart use of data. Inside this book you'll find out: What it really means to create smarter cities How our urban environments are being transformed Big ideas for improving the quality of life for communities Guidance on how to create a smart city strategy The essential role of data in building better cities The major new technologies ready to make a difference in every community Smart Cities For Dummies will give you the knowledge

to understand this important topic in depth and be ready to be an agent of change in your community.

Against the Smart City - Adam Greenfield 2013

Toxicology Research Projects Directory - 1978

Lighting Dimensions - 1997

Car Hacks and Mods For Dummies - David Vespremi 2011-05-09

So you want to turn your Yugo into a Viper? Sorry--you need a certified magician. But if you want to turn your sedate sedan into a mean machine or your used car lot deal into a powerful, purring set of wheels, you've come to the right place. Car Hacks & Mods for Dummies will get you turbo-charged up about modifying your car and guide you smoothly through: Choosing a car to mod Considering warranties, legal, and safety issues Hacking the ECU (Engine Control Unit) to adjust performance-enhancing factors like fuel injection, firing the spark plugs, controlling the cooling fan, and more Replacing your ECU with a plug and play system such as the APEXi Power FC or the AEM EMS system Putting on the brakes (the faster you go, the faster you'll need to stop) Setting up your car for better handling and cornering Written by David Vespremi, automotive expert, frequent guest on national car-related TV shows, track driving instructor and self-proclaimed modder, Car Hacks & Mods for Dummies gets you into the ECU and under the hood and gives you the keys to: Choosing new wheels, including everything from the basics to dubs and spinners Putting your car on a diet, because lighter means faster Basic power bolt-ons and more expensive power adders Installing roll bars and cages to enhance safety Adding aero add-ons, including front "chin" spoilers, real spoilers, side skirts, and canards Detailing, down to the best cleaners and waxes and cleaning under the hood Using OBD (on-board diagnostics) for troubleshooting Getting advice from general Internet sites and specific message boards and forums for your car's make or model, whether it's a Chevy pick-up or an Alfa Romeo roadster Whether you want to compete at drag strips or on road courses

or simply accelerate faster on an interstate ramp, if you want to improve your car's performance, Car Hacks & Mods for Dummies is just the boost you need.

The Automated City - Seng W. Loke 2021-09-01

The book outlines the concept of the Automated City, in the context of smart city research and development. While there have been many other perspectives on the smart city such as the participatory city and the data-centric city, this book focuses on automation for the smart city based on current and emerging technologies such as the Internet of Things, Artificial Intelligence and Robotics. The book attempts to provide a balanced view, outlining the promises and potential of the Automated City as well as the perils and challenges of widespread automation in the city. The book discusses, at some depth, automated vehicles, urban robots and urban drones as emerging technologies that will automate many aspects of city life and operation, drawing on current work and research literature. The book also considers broader perspectives of the future city, in the context of automation in the smart city, including aspirational visions of cities, transportation, new business models, and socio-technological challenges, from urban edge computing, ethics of the Automated City and smart devices, to large scale cooperating autonomous systems in the city.

Index of Patents Issued from the United States Patent Office - United States. Patent Office 1944

Standard & Poor's Register of Corporations, Directors and Executives - Standard and Poor's Corporation 2003

This principal source for company identification is indexed by Standard Industrial Classification Code, geographical location, and by executive and directors' names.

Passenger Transport - 1974

Vols. for 1947-56 include an unnumbered convention issue called Passenger transport annual (title varies) Issued 1943-44 as sections of a regular no. and 1946 as no. 19? of v. 4.

Art in Transit - Pallas C. Lombardi 2019-01-16

This 2nd edition publication documents Charlotte Area Transit System's public art projects since its inception in 2002.

Towards Smart World - Lavanya Sharma 2020-12-13

Towards Smart World: Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and communication to IoT for making cities smart, real-time applications domains, related technologies, and their possible solutions for handling relevant challenges. This book highlights the utilization of IoT for making cities smart and its underlying technologies in real-time application areas such as emergency departments, intelligent traffic systems, indoor and outdoor securities, automotive industries, environmental monitoring, business entrepreneurship, facial recognition, and motion-based object detection. Features The book covers the challenging issues related to sensors, detection, and tracking of moving objects, and solutions to handle relevant challenges. It contains the most recent research analysis in the domain of communications, signal processing, and computing sciences for facilitating smart homes, buildings, environmental conditions, and cities. It presents the readers with practical approaches and future direction for using IoT in smart cities and discusses how it deals with human dynamics, the ecosystem, and social objects and their relation. It describes the latest technological advances in IoT and visual surveillance with their implementations. This book is an ideal resource for IT professionals, researchers, undergraduate or postgraduate students, practitioners, and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities, real-time applications areas, and technologies, and a possible set of solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She has been a recipient of several prestigious awards during her academic career. She is an active nationally recognized researcher who has published numerous papers in her field.