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Today And
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The Internet Of Things Today And Tomorrow

Connect your
organization to the
Internet of Things with
solid strategy and a
proven

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implementation plan
Building Internet of
Things provides front-
line business decision
makers with a
practical handbook for
capitalizing on this
latest transformation.
Focusing on the
business implications
of Internet of Things
(IoT), this book
describes the sheer
impact, spread, and

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opportunities arising every day, and how business leaders can implement IoT today to realize tangible business advantages. The discussion delves into IoT from a business, strategy and organizational standpoint, and includes use-cases that illustrate the ripple effect that this

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latest disruption brings; you'll learn how to fashion a viable IoT plan that works with your organization's strategy and direction, and how to implement that strategy successfully by integrating IoT into your organization tomorrow. For business managers,

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the biggest question surrounding the Internet of Things is what to do with it. This book examines the way IoT is being used today—and will be used in the future—to help you craft a robust plan for your organization. Grasp the depth and breadth of the Internet of Things Create a

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secure IoT recipe that aligns with your company's strategy Capitalize on advances while avoiding disruption from others Leverage the technical, organizational, and social impact of IoT In the past five years, the Internet of Things has become the new frontier of technology

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that has everyone talking. It seems that almost every week a major vendor announces a new IoT strategy or division; is your company missing the boat? Learn where IoT fits into your organization, and how to turn disruption into profit with the expert guidance in Building

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the Internet of Things.
This book constitutes
the refereed post-
conference
proceedings of the
Second IFIP
International Cross-
Domain Conference
on Internet of Things,
IFIPIoT 2019, held in
Tampa, USA, in
October/ November
2019. The 11 full
papers presented

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Today And Tomorrow
were carefully reviewed and

selected from 22 submissions. Also included in this volume are 8 invited papers. The papers are organized in the following topical sections: IoT applications; context reasoning and situational awareness; IoT security; smart

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and low power IoT;
smart network
architectures; and
smart system design
and IoT education.
Presents an Cyber-
Assurance approach
to the Internet of
Things (IoT) This
book discusses the
cyber-assurance
needs of the IoT
environment,
highlighting key

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information assurance (IA) IoT issues and identifying the associated security implications. Through contributions from cyber-assurance, IA, information security and IoT industry practitioners and experts, the text covers fundamental and advanced concepts necessary

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to grasp current IA issues, challenges, and solutions for the IoT. The future trends in IoT infrastructures, architectures and applications are also examined. Other topics discussed include the IA protection of IoT systems and information being stored, processed or

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transmitted from
unauthorized access
or modification of
machine-2-machine
(M2M) devices, radio-
frequency
identification (RFID)
networks, wireless
sensor networks,
smart grids, and
supervisory control
and data acquisition
(SCADA) systems.

The book also

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discusses IA measures necessary to detect, protect, and defend IoT information and networks/systems to ensure their availability, integrity, authentication, confidentiality, and non-repudiation. Discusses current research and emerging trends in IA

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theory, applications,
architecture and
information security in
the IoT based on
theoretical aspects
and studies of
practical applications
Aids readers in
understanding how to
design and build
cyber-assurance into
the IoT Exposes
engineers and
designers to new

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strategies and emerging standards, and promotes active development of cyber-assurance Covers challenging issues as well as potential solutions, encouraging discussion and debate amongst those in the field Cyber-Assurance for the Internet of Things is

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written for

researchers and

professionals working

in the field of wireless

technologies,

information security

architecture, and

security system

design. This book will

also serve as a

reference for

professors and

students involved in

IA and IoT

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networking. Tyson T. Brooks is an Adjunct Professor in the School of Information Studies at Syracuse University; he also works with the Center for Information and Systems Assurance and Trust (CISAT) at Syracuse University, and is an information security technologist and science-

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practitioner. Dr.
Brooks is the
founder/Editor-in-
Chief of the
International Journal
of Internet of Things
and Cyber-
Assurance, an
associate editor for
the Journal of
Enterprise
Architecture, the
International Journal
of Cloud Computing

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and Services Science,
and the International
Journal of Information
and Network Security.
Today, Internet of
Things (IoT) is
ubiquitous as it is
applied in practice in
everything from
Industrial Control
Systems (ICS) to e-
Health, e-commerce,
Cyber Physical
Systems (CPS), smart

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cities, smart parking, healthcare, supply chain management and many more.

Numerous industries, academics, alliances and standardization organizations make an effort on IoT standardization, innovation and development. But there is still a need for a comprehensive

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framework with integrated standards under one IoT vision. Furthermore, the existing IoT systems are vulnerable to huge range of malicious attacks owing to the massive numbers of deployed IoT systems, inadequate data security standards and the resource-

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constrained nature.

Existing security solutions are insufficient and therefore it is necessary to enable the IoT devices to dynamically counter the threats and save the system. Apart from illustrating the diversified IoT applications, this book also addresses the

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issue of data

safekeeping along
with the development
of new security-
enhancing schemes
such as blockchain,
as well as a range of
other advances in IoT.
The reader will
discover that the IoT
facilitates a
multidisciplinary
approach dedicated to
create novel

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applications and develop integrated solutions to build a sustainable society. The innovative and fresh advances that demonstrate IoT and computational intelligence in practice are discussed in this book, which will be helpful and informative for scientists, research

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scholars,
academicians,
policymakers, industry
professionals,
government
organizations and
others. This book is
intended for a broad
target audience,
including scholars of
various generations
and disciplines,
recognized scholars
(lecturers and

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professors) and young researchers (postgraduate and undergraduates) who study the legal and socio-economic consequences of the emergence and dissemination of digital technologies such as IoT.

Furthermore, the book is intended for researchers,

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developers and operators working in the field of IoT and eager to comprehend the vulnerability of the IoT paradigm. The book will serve as a comprehensive guide for the advanced-level students in computer science who are interested in understanding the severity and

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implications of the accompanied security issues in IoT. Dr. Bharat Bhushan is an Assistant Professor of Department of Computer Science and Engineering (CSE) at School of Engineering and Technology, Sharda University, Greater Noida, India. Prof. (Dr.) Sudhir Kumar

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Sharma is currently a Professor and Head of the Department of Computer Science, Institute of Information Technology & Management affiliated to GGSIPU, New Delhi, India. Prof. (Dr.) Bhuvan Unhelkar (BE, MDBA, MSc, PhD; FACS; PSM-I, CBAP®) is an accomplished IT

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professional and
Professor of IT at the
University of South
Florida, Sarasota-
Manatee (Lead
Faculty). Dr.
Muhammad Fazal Ijaz
is working as an
Assistant Professor in
Department of
Intelligent
Mechatronics
Engineering, Sejong
University, Seoul,

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Korea. Prof. (Dr.)

Lamia Karim is a professor of computer science at the National School of Applied Sciences Berrechid (ENSAB), Hassan 1st University.

This book provides an overview of the emerging smart connected world, and discusses the roles

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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

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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

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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

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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

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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

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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

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of Computer Science,
Purdue University,
United States

Internet of Things
(IoT) in 5G Mobile
Technologies

The Cloud-to-Thing
Continuum

Internet of Things. A
Confluence of Many
Disciplines

Emerging Trends and
Applications of the
Internet of Things

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Internet of Things
(IoT) for Automated
and Smart
Applications
Leveraging the
Internet of Things for
a More Efficient and
Effective Military
Second IFIP
International Cross-
Domain Conference,
IFIPIoT 2019, Tampa,
FL, USA, October 31
– November 1, 2019,

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Revised Selected
Papers

**A practical,
indispensable
security guide that
will navigate you
through the
complex realm of
securely building
and deploying
systems in our IoT-
connected world**

About This Book

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**Learn to design
and implement
cyber security
strategies for your
organization Learn
to protect cyber-
physical systems
and utilize forensic
data analysis to
beat vulnerabilities
in your IoT
ecosystem Learn
best practices to**

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**secure your data
from device to the
cloud Gain insight
into privacy-
enhancing
techniques and
technologies Who
This Book Is For
This book targets
IT Security
Professionals and
Security Engineers
(including**

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**pentesters,
security architects
and ethical
hackers) who
would like to
ensure security of
their
organization's data
when connected
through the IoT.
Business analysts
and managers will
also find it useful.**

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**What You Will
Learn Learn how
to break down
cross-industry
barriers by
adopting the best
practices for IoT
deployments Build
a rock-solid
security program
for IoT that is cost-
effective and easy
to maintain**

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Demystify complex topics such as cryptography, privacy, and penetration testing to improve your security posture
See how the selection of individual components can affect the security posture of the

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**entire system Use
Systems Security
Engineering and
Privacy-by-design
principles to
design a secure
IoT ecosystem Get
to know how to
leverage the
burdgening cloud-
based systems
that will support
the IoT into the**

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future. In Detail

**With the advent of
Intenret of Things
(IoT), businesses
will be faced with
defending against
new types of
threats. The
business
ecosystem now
includes cloud
computing
infrastructure,**

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**mobile and fixed
endpoints that
open up new
attack surfaces, a
desire to share
information with
many stakeholders
and a need to take
action quickly
based on large
quantities of
collected data. . It
therefore becomes**

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critical to ensure that cyber security threats are contained to a minimum when implementing new IoT services and solutions. . The interconnectivity of people, devices, and companies raises stakes to a new level as

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**computing and
action become
even more mobile,
everything
becomes
connected to the
cloud, and
infrastructure is
strained to
securely manage
the billions of
devices that will
connect us all to**

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the IoT. This book shows you how to implement cyber-security solutions, IoT design best practices and risk mitigation methodologies to address device and infrastructure threats to IoT solutions. This book will take

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**readers on a
journey that
begins with
understanding the
IoT and how it can
be applied in
various industries,
goes on to
describe the
security
challenges
associated with
the IoT, and then**

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Tomorrow
**provides a set of
guidelines to
architect and
deploy a secure
IoT in your
Enterprise. The
book will
showcase how the
IoT is implemented
in early-adopting
industries and
describe how
lessons can be**

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**learned and
shared across
diverse industries
to support a
secure IoT. Style
and approach This
book aims to
educate readers
on key areas in IoT
security. It walks
readers through
engaging with
security**

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**challenges and
then provides
answers on how to
successfully
manage IoT
security and build
a safe
infrastructure for
smart devices.**

**After reading this
book, you will
understand the
true potential of**

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**tools and
solutions in order
to build real-time
security
intelligence on IoT
networks.**

**This book reports
on the latest
advances in the
modeling, analysis
and efficient
management of
information in**

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**Internet of Things
(IoT) applications
in the context of
5G access
technologies. It
presents cutting-
edge applications
made possible by
the
implementation of
femtocell networks
and millimeter
wave**

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communications solutions, examining them from the perspective of the universally and constantly connected IoT. Moreover, it describes novel architectural approaches to the IoT and presents

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the new framework possibilities offered by 5G mobile networks, including middleware requirements, node-centrality and the location of extensive functionalities at the edge. By providing

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**researchers and
professionals with
a timely snapshot
of emerging
mobile
communication
systems, and
highlighting the
main pitfalls and
potential
solutions, the
book fills an
important gap in**

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**the literature and
will foster the
further
developments of
5G hosting IoT
devices.**

**Enterprise
Information
Architecture for a
New Age: Big Data
and The Internet of
Things, provides
guidance in**

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**designing an
information
architecture to
accommodate
increasingly large
amounts of data,
massively large
amounts of data,
not only from
traditional
sources, but also
from novel
sources such**

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**everyday objects
that are fast
becoming wired
into global
Internet. No
business can
afford to be caught
out by missing the
value to be mined
from the
increasingly large
amounts of
available data**

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**generated by
everyday devices.**

**The text provides
background as to
how analytical
solutions and
enterprise
architecture
methodologies
and concepts have
evolved (including
the roles of data
warehouses,**

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**intelligence tools,
predictive
analytics, data
discovery, Big
Data, and the
impact of the
Internet of Things).
Then you're taken
through a series of
steps by which to
define a future
state architecture**

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**and create a plan
for how to reach
that future state.**

**Enterprise
Information
Architecture for a
New Age: Big Data
and The Internet of
Things helps you
gain an
understanding of
the following:
Implications of Big**

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Data from a variety of new data sources (including data from sensors that are part of the Internet of Things) upon an information architecture How establishing a vision for data usage by defining a roadmap that

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**aligns IT with line-
of-business needs
is a key early step
The importance
and details of
taking a step-by-
step approach
when dealing with
shifting business
challenges and
changing
technology
capabilities How to**

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**mitigate risk when
evaluating existing
infrastructure and
designing and
deploying new
infrastructure**

Enterprise

Information

**Architecture for a
New Age: Big Data
and The Internet of
Things combines
practical advice**

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**with technical
considerations.**

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Stackowiak and
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recognized
worldwide for their
expertise in large
data solutions,
including
analytics. Don't
miss your chance
to read this book**

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**and gain the
benefit of their
advice as you look
forward in thinking
through your own
choices and
designing your
own architecture
to accommodate
the burgeoning
explosion in data
that can be
analyzed and**

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**converted into
valuable
information to
drive your
business forward
toward success.
This book offers
the first
comprehensive
view on integrated
circuit and system
design for the
Internet of Things**

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(IoT), and in particular for the tiny nodes at its edge. The authors provide a fresh perspective on how the IoT will evolve based on recent and foreseeable trends in the semiconductor industry,

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**highlighting the
key challenges, as
well as the
opportunities for
circuit and system
innovation to
address them. This
book describes
what the IoT really
means from the
design point of
view, and how the
constraints**

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**imposed by
applications
translate into
integrated circuit
requirements and
design guidelines.
Chapter
contributions
equally come from
industry and
academia. After
providing a system
perspective on IoT**

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**nodes, this book
focuses on state-
of-the-art design
techniques for IoT
applications,
encompassing the
fundamental sub-
systems
encountered in
Systems on Chip
for IoT: ultra-low
power digital
architectures and**

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**circuits low- and
zero-leakage**

memories

(including

emerging

technologies)

circuits for

hardware security

and authentication

System on Chip

design

methodologies on-

chip power

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**management and
energy harvesting
ultra-low power
analog interfaces
and analog-digital
conversion short-
range radios
miniaturized
battery
technologies
packaging and
assembly of IoT
integrated systems**

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(on silicon and non-silicon substrates). As a common thread, all chapters conclude with a prospective view on the foreseeable evolution of the related technologies for IoT. The concepts developed

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throughout the
book are

exemplified by two
IoT node system
demonstrations
from industry. The
unique balance
between breadth
and depth of this
book: enables
expert readers
quickly to develop
an understanding

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of the specific challenges and state-of-the-art solutions for IoT, as well as their evolution in the foreseeable future provides non-experts with a comprehensive introduction to integrated circuit design for IoT, and

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**serves as an
excellent starting
point for further
learning, thanks to
the broad
coverage of topics
and selected
references makes
it very well suited
for practicing
engineers and
scientists working
in the hardware**

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**and chip design
for IoT, and as
textbook for senior
undergraduate,
graduate and
postgraduate
students (familiar
with analog and
digital circuits).
Provides
comprehensive
coverage of the
current state of**

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IoT, focusing on data processing infrastructure and techniques Written by experts in the field, this book addresses the IoT technology stack, from connectivity through data platforms to end-user case studies, and considers the

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**tradeoffs between
business needs
and data security
and privacy
throughout. There
is a particular
emphasis on data
processing
technologies that
enable the
extraction of
actionable insights
from data to**

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**inform improved
decision making.
These include
artificial
intelligence
techniques such
as stream
processing, deep
learning and
knowledge graphs,
as well as data
interoperability
and the key**

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**aspects of privacy,
security and trust.**

**Additional aspects
covered include:
creating and
supporting IoT
ecosystems; edge
computing; data
mining of sensor
datasets; and
crowd-sourcing,
amongst others.
The book also**

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presents several sections featuring use cases across a range of application areas such as smart energy, transportation, smart factories, and more. The book concludes with a chapter on key considerations

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**when deploying
IoT technologies in
the enterprise,
followed by a brief
review of future
research
directions and
challenges. The
Internet of Things:
From Data to
Insight Provides a
comprehensive
overview of the**

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**Internet of Things
technology stack
with focus on data
driven aspects
from data
modelling and
processing to
presentation for
decision making
Explains how IoT
technology is
applied in practice
and the benefits**

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being delivered.

**Acquaints readers
that are new to the
area with
concepts,
components,
technologies, and
verticals related to
and enabled by IoT
Gives IoT
specialists a
deeper insight into
data and decision-**

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**making aspects as
well as novel
technologies and
application areas
Analyzes and
presents important
emerging
technologies for
the IoT arena
Shows how
different objects
and devices can
be connected to**

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**decision making
processes at
various levels of
abstraction The
Internet of Things:
From Data to
Insight will appeal
to a wide
audience,
including IT and
network
specialists seeking
a broad and**

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**complete
understanding of
IoT, CIOs and CIO
teams, researchers
in IoT and related
fields, final year
undergraduates,
graduate students,
post-graduates,
and IT and science
media
professionals.**

A Scalable

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**Approach to
Connecting
Everything
10 Big Ideas about
Applying the
Science of where
Practical IoT
Hacking
The Internet of
Things
Getting Started
with the Internet of
Things**

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**From Integrated
Circuits to
Integrated
Systems
Securing the
Internet of Things**

*Internet of Things (IoT)
is a recent technology
paradigm that creates a
global network of
machines and devices
that are capable of
communicating with*

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each other. Security cameras, sensors, vehicles, buildings, and software are examples of devices that can exchange data between each other. IoT is recognized as one of the most important areas of future technologies and is gaining vast recognition in a wide range of applications and fields related to

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*smart homes and cities,
military, education,
hospitals, homeland
security systems,
transportation and
autonomous connected
cars, agriculture,
intelligent shopping
systems, and other
modern technologies.
This book explores the
most important IoT
automated and smart
applications to help the*

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reader understand the principle of using IoT in such applications.

The Internet of Things offers massive societal and economic opportunities while at the same time significant challenges, not least the delivery and management of the technical infrastructure underpinning it, the deluge of data

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generated from it, ensuring privacy and security, and capturing value from it. This Open Access Pivot explores these challenges, presenting the state of the art and future directions for research but also frameworks for making sense of this complex area. This book provides a variety of

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*perspectives on how
technology innovations
such as fog, edge and
dew computing, 5G
networks, and
distributed intelligence
are making us rethink
conventional cloud
computing to support
the Internet of Things.
Much of this book
focuses on technical
aspects of the Internet
of Things, however,*

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clear methodologies for mapping the business value of the Internet of Things are still missing. We provide a value mapping framework for the Internet of Things to address this gap. While there is much hype about the Internet of Things, we have yet to reach the tipping point. As such, this book provides a

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timely entrée for higher education educators, researchers and students, industry and policy makers on the technologies that promise to reshape how society interacts and operates. Theo Lynn is Full Professor of Digital Business at DCU Business School, Ireland and Director of the Irish Institute of

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Digital Business. John G. Mooney is Associate Professor of Information Systems and Technology Management at the Pepperdine Graziadio Business School, United States. Brian Lee is Director of the Software Research Institute at Athlone Institute of Technology. Patricia Takako Endo

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Today And
Tomorrow

*is a Postdoctoral
Research Fellow at the
Irish Institute of Digital
Business, Dublin City
University, Ireland, and
a Professor at
Universidade de
Pernambuco, Brazil.*

*The Internet of Things
(IoT) is transforming
the way organizations
communicate,
collaborate, and
coordinate. This report*

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suggests ways in which the U.S. military could better leverage the IoT to improve efficiency and effectiveness.

This book provides an in-depth understanding of Internet of Things (IoT) technology. It highlights several of today's research and technological challenges of translating the concept

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of the IoT into a practical, technologically feasible, and business-viable solution. It introduces two novel technologies--sensor-cloud and fog computing--as the crucial enablers for the sensing and compute backbone of the IoT. The book discusses these two key enabling technologies of IoT that

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Today And

*include a wide range of
practical design issues
and the futuristic
possibilities and
directions involving
sensor networks and
cloud and fog
computing
environments towards
the realization and
support of IoT.*

*Classroom presentations
and solutions to end of
chapter questions are*

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*available to instructors
who use the book in
their classes.*

*Take your idea from
concept to production
with this unique guide
Whether it's called
physical computing,
ubiquitous computing,
or the Internet of
Things, it's a hot topic
in technology: how to
channel your inner
Steve Jobs and*

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successfully combine hardware, embedded software, web services, electronics, and cool design to create cutting-edge devices that are fun, interactive, and practical. If you'd like to create the next must-have product, this unique book is the perfect place to start. Both a creative and practical primer, it

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explores the platforms you can use to develop hardware or software, discusses design concepts that will make your products eye-catching and appealing, and shows you ways to scale up from a single prototype to mass production. Helps software engineers, web designers, product designers, and

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*electronics engineers
start designing products
using the Internet-of-
Things approach*

*Explains how to
combine sensors, servos,
robotics, Arduino chips,
and more with various
networks or the*

*Internet, to create
interactive, cutting-edge
devices Provides an
overview of the*

necessary steps to take

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*your idea from concept
through production If
you'd like to design for
the future, Designing
the Internet of Things is
a great place to start.*

*Smart Connected World
Cyber-Assurance for
the Internet of Things
Building the Internet of
Things*

*Enabling the Internet
of Things*

Practical Internet of

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Today And
*Things Security
Technology,*

*Applications and
Standardization*

*Swarm Intelligence for
Resource Management
in Internet of Things*

The widespread
availability
of
technologies
has increased
exponentially

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in recent
years. This
ubiquity has
created more
connectivity
and seamless
integration
among
technology
devices.

Emerging
Trends and

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Applications
of the

Internet of
Things is an
essential
reference
publication
featuring the
latest
scholarly
research on
the surge of

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connectivity
between
computing
devices in
modern
society, as
well as the
benefits and
challenges of
this.

Featuring
extensive

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coverage on a
broad range of
topics such as
cloud
computing,
spatial
cognition, and
ultrasonic
sensing, this
book is
ideally
designed for

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researchers,
professionals,
and
academicians
seeking
current
research on
upcoming
advances in
the Internet
of Things
(IoT).

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Master
Tomorrow

powerful

techniques and
approaches for
securing IoT
systems of all
kinds—current
and emerging
Internet of
Things (IoT)
technology
adoption is

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Today And
Tomorrow
accelerating,
but IoT

presents
complex new
security
challenges.
Fortunately,
IoT standards
and
standardized
architectures
are emerging

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to help
technical
professionals
systematically
harden their
IoT
environments.
In
Orchestrating
and Automating
Security for
the Internet

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of Things,
three Cisco
experts show
how to
safeguard
current and
future IoT
systems by
delivering
security
through new
NFV and SDN

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architectures
and related
IoT security
standards. The
authors first
review the
current state
of IoT
networks and
architectures,
identifying
key security

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associated
with nonstanda
rdized early
deployments
and showing
how early
adopters have
attempted to
respond. Next,
they introduce
more mature

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architectures
built around
NFV and SDN.

You'll
discover why
these lend
themselves
well to IoT
and IoT
security, and
master
advanced

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approaches for protecting them. Finally, the authors preview future approaches to improving IoT security and present real-world use case examples. This is an

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indispensable
resource for
all technical
and security
professionals,
business
security and
risk managers,
and
consultants
who are
responsible

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for systems
that

incorporate or
utilize IoT
devices, or
expect to be
responsible
for them. •

Understand the
challenges
involved in
securing

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current IoT
networks and
architectures

- Master IoT security fundamentals, standards, and modern best practices •
- Systematically plan for IoT security •

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Today And
Leverage Softw
Tomorrow
are-Defined
Networking
(SDN) and
Network
Function
Virtualization
(NFV) to
harden IoT
networks .
Deploy the
advanced IoT

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Today And Tomorrow
platform, and
use MANO to
manage and
orchestrate
virtualized
network
functions .
Implement
platform
security
services
including

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identity, authentication,
authorization,
and accounting

- Detect threats and protect data in IoT environments
- Secure IoT in the context of remote access

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and VPNs .

Safeguard the
IoT platform
itself .

Explore use
cases ranging
from smart
cities and
advanced
energy systems
to the
connected car

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• Preview
evolving

concepts that
will shape the
future of IoT
security

"Written by
prominent
thought

leaders in the
global FinTech
investment

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space, The
LegalTech Book
aggregates
diverse
expertise into
a single,
informative
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industry
developments
are explained
in detail, and

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critical
insights from
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practitioners
offer first-
hand
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and lessons
learned.

Coverage
includes: The
current status

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of LegalTech,
why now is the
time for it to
boom, the
drivers behind
it, and how it
relates to
FinTech,
RegTech,
InsurTech and
WealthTech
Applications

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of AI, machine
learning and
deep learning
in the
practice of
law; e-
discovery and
due diligence;
AI as a legal
predictor
LegalTech
making the law

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accessible to
all; online
courts, online
dispute
resolution The
Uberization of
the law;
hiring and
firing through
apps Lawbots;
social media
meets legal

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advice To what
extent does
LegalTech make
lawyers
redundant? Cry
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distributed
ledger
technology and
the law The
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Things, data

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privacy,
automated

contracts

Cybersecurity

and data

Technology vs.

the law;

driverless

cars and

liability,

legal rights

of robots,

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ownership
rights over
works created
by technology
Legislators as
innovators" --
This book
presents a
comprehensive
framework for
IoT, including
its

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architectures,
security,
privacy,
network commun
ications, and
protocols. The
book starts by
providing an
overview of
the
aforementioned
research

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topics, future directions and open challenges that face the IoT development. The authors then discuss the main architectures in the field,

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which include
Three- and
Five-Layer
Architectures,
Cloud and Fog
Based
Architectures,
a Social IoT
Application
Architecture.
In the
security

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chapter, the
authors
outline
threats and
attacks,
privacy
preservation,
trust and auth
entication,
IoT data
security, and
social

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awareness. The
final chapter
presents case
studies
including
smart home,
wearables,
connected
cars,
industrial
Internet,
smart cities,

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IoT in
agriculture,
smart retail,
energy
engagement,
IoT in
healthcare,
and IoT in
poultry and
farming.

Discusses
ongoing

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research into
the connection
of the
physical and
virtual
worlds;
Includes the
architecture,
security,
privacy, commu-
nications, and
protocols of

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IoT; Presents
a variety of
case studies
in IoT
including
wearables,
smart cities,
and energy
management.

A
comprehensive
overview of

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the Internet
of Things',
core concepts,
technologies,
and
applications
Internet of
Things A to Z
offers a
holistic
approach to
the Internet

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of Things
(IoT) model.

The Internet
of Things
refers to
uniquely
identifiable
objects and
their virtual
representation
s in an
Internet-like

Read PDF The Internet Of Things Today And structure.

Recently,
there has been
a rapid growth
in research on
IoT
communications
and networks,
that confirms
the
scalability
and broad

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reach of the
core concepts.

With
contributions
from a panel
of
international
experts, the
text offers
insight into
the ideas,
technologies,

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and
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applications
of this
subject. The
authors
discuss recent
developments
in the field
and the most
current and
emerging
trends in IoT.

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In addition,
the text is
filled with
examples of
innovative
applications
and real-world
case studies.
Internet of
Things A to Z
fills the need
for an up-to-

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date volume on
the topic.

This important
book: Covers
in great
detail the
core concepts,
enabling
technologies,
and
implications
of the

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Today And
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Internet of
Things

Addresses the
business,

social, and
legal aspects

of the

Internet of
Things

Explores the
critical topic
of security

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and privacy
challenges for
both
individuals
and
organizations
Includes a
discussion of
advanced
topics such as
the need for
standards and

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Contains
contributions
from an
international
group of
experts in
academia,
industry, and
research
Written for
ICT

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researchers,
industry
professionals,
and lifetime
IT learners as
well as
academics and
students,
Internet of
Things A to Z
provides a
much-needed

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comprehensive
resource to
this
burgeoning
field.

Towards the
Internet of
Things

The Legal
Technology
Handbook for

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Investors,
Entrepreneurs
and FinTech
Visionaries
Architectures,
Security, and
Applications

Enterprise
Information
Architecture
for A New Age

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Tomorrow
From Data to
Insight

Emerging 2D
Materials and
Devices for
the Internet
of Things

*The old Internet
typically
connected
personal
computers. But a
radically new*

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Internet is emerging. Some call it an "Internet of Things" (IoT) or "Internet of Everything" (IoE). The IoT won't just connect people: it'll connect "smart" homes, appliances, cars, aircraft

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(a.k.a. drones)...
offices,
factories,
cities... the
world. By some
estimates, the
IoE will explode
into a \$19
trillion market
in just a few
years. If that
happens... when
that happens... it
will transform

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*your life. ¿ You
need to know
what's coming.
But, until now,
most guides to
the Internet of
Everything have
been written for
technical
experts. Now,
the world's #1
author of
beginning
technology books*

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has written the perfect introduction for every consumer and citizen. In The Internet of Things, Michael Miller reveals how a new generation of autonomously connected smart devices is emerging, and

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*Today And
Tomorrow*
*how it will
enable people
and devices to
do more things,
more
intelligently,
and more
rapidly. i
Miller
demystifies
every type of
smart device,
both current and
future. Each*

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*chapter ends
with a special
"...and You"
section,
offering up-to-
the-minute
advice for using
today's IoE
technologies or
preparing for
tomorrow's. ¿
You'll also
discover the
potential*

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downsides and risks associated with intelligent, automatic interaction. When all your devices can communicate with each other (and with the companies that sell and monitor them), how

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*private is your
private life? Do
the benefits
outweigh the
risks? And what
does a connected
world do when
the connections
suddenly go
down? Packed
with scenarios
and insider
interviews, The
Internet of*

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Today And
Tomorrow

*Things makes our
future utterly,
vividly real.*

*The book aims to
provide a broad
overview of
various topics
of the Internet
of Things (IoT)
from the
research and
development
priorities to
enabling*

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*technologies,
architecture,
security,
privacy,
interoperability
and industrial
applications. It
is intended to
be a stand-alone
book in a series
that covers the
Internet of
Things
activities of*

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the IERC -

Internet of
Things European
Research Cluster
- from
technology to
international
cooperation and
the global
"state of play."
The book builds
on the ideas put
forward by the
European

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*Research Cluster
on the Internet
of Things
Strategic
Research and
Innovation
Agenda and
presents views
and state of the
art results on
the challenges
facing the
research,
development and*

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*deployment of
IoT at the
global level.*

*Today we see the
integration of
Industrial,
Business and
Consumer*

*Internet which
is bringing
together the
Internet of
People, Internet
of Things,*

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*Today And
Tomorrow*
*Internet of
Energy, Internet
of Vehicles,
Internet of
Media, Services
and Enterprises
in forming the
backbone of the
digital economy,
the digital
society and the
foundation for
the future
knowledge and*

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*innovation based
economy. These
developments are
supporting
solutions for
the emerging
challenges of
public health,
aging
population,
environmental
protection and
climate change,
the conservation*

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*of energy and
scarce
materials,
enhancements to
safety and
security and the
continuation and
growth of
economic
prosperity.
Penetration of
smartphones and
advances in
nanoelectronics,*

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*cyber-physical
systems,
wireless
communication,
software, and
Cloud computing
technology will
be the main
drivers for IoT
development. The
IoT contribution
is seen in the
increased value
of information*

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*created by the
number of
interconnections
among things and
the
transformation
of the processed
information into
knowledge shared
into the
Internet of
Everything. The
connected
devices are part*

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Today And
Tomorrow

*of ecosystems
connecting
people,
processes, data,
and things which
are
communicating in
the Cloud using
the increased
storage and
computing power
while attempting
to standardize
communication*

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Tomorrow

*and metadata. In
this context,
the next
generation of
Cloud computing
technologies
will need to be
flexible enough
to scale
autonomously,
adaptive enough
to handle
constantly
changing*

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connections and resilient enough to stand up to the huge flows of data that will occur. In 2025, analysts forecast that there will be six devices per human on the planet, which means around 50 billion more

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connected devices over the next 12 years.

The Internet of Things market is connected to this anticipated device growth from industrial Machine to Machine (M2M) systems, smart meters and wireless

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sensors.

Internet of
Things
technology will
generate new
services and new
interfaces by
creating smart
environments and
smart spaces
with
applications
ranging from
Smart Cities,

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*Smart Transport,
Buildings,
Energy, Grid, to
Smart Health and
Life.*

*This is a book
for people who
want to know
what the future
is going to look
like and for
people who want
to know how to
create the*

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future.

Tomorroy
Gershenfeld
offers a glimpse
at the brave new
post-
computerized
world, where
microchips work
for us instead
of against us.
He argues that
we waste the
potential of the
microchip when

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Today And
Tomorrow
we confine it to
a box on our

desk: the real
electronic
revolution will
come when

computers have
all but
disappeared into
the walls around
us. Imagine a
digital book
that looks like
a traditional

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book printed on paper and is pleasant to read in bed but has all the mutability of a screen display. How about a personal fabricator that can organize digitized atoms into anything you want, or a

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*musical keyboard
that can be
woven into a
denim jacket? In
When Things
Start to Think,
Gershenfeld
tells the story
of his Things
that Think group
at MIT's Media
Lab, the group
of innovative
scientists and*

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researchers
dedicated to
integrating
digital
technology into
the fabric of
our lives.

The term
"Internet of
Things" (IoT)
refers to an
ecosystem of
interconnected
physical objects

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and devices that are accessible through the Internet and can communicate with each other. The main strength of the IoT vision is the high impact it has created and will continue to do so on several aspects of the

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*everyday life
and behavior of
its potential
users. This book
presents some of
the state-of-the-
art research
work in the
field of the
IoT, especially
on the issues of
communication
protocols,
interoperability*

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of protocols and semantics, trust security and privacy issues, reference architecture design, and standardization. It will be a valuable source of knowledge for researchers, engineers, practitioners,

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*and graduate and
doctoral
students who are
working in
various fields
of the IoT. It
will also be
useful for
faculty members
of graduate
schools and
universities.
Securing the
Internet of*

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Things provides network and cybersecurity researchers and practitioners with both the theoretical and practical knowledge they need to know regarding security in the Internet of Things (IoT).

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This booming field, moving from strictly research to the marketplace, is advancing rapidly, yet security issues abound. This book explains the fundamental concepts of IoT security, describing

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practical solutions that account for resource limitations at IoT end-node, hybrid network architecture, communication protocols, and application characteristics. Highlighting the most important

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potential IoT security risks and threats, the book covers both the general theory and practical implications for people working in security in the Internet of Things. Helps researchers and practitioners

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*understand the
security
architecture in
IoT and the
state-of-the-art
in IoT security
countermeasures
Explores how the
threats in IoT
are different
from traditional
ad hoc or
infrastructural
networks*

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Provides a comprehensive discussion on the security challenges and solutions in RFID, WSNs, and IoT Contributed material by Dr. Imed Romdhani

Integrating Digital Technology into the Fabric of

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Our Lives

*Opportunities
and Challenges
in Cloud, Fog
and Edge
Computing
Technologies and
Applications
Shaping the
Future*

*Rethinking the
Internet of
Things*

The ArcGIS Book

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*Challenges and
Opportunities*

*When Things
Start to Think*

This is a hands-on
book about ArcGIS
that you work with
as much as read.

By the end, using
Learn ArcGIS
lessons, you'll be
able to say you

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made a story map,
conducted
geographic
analysis, edited
geographic data,
worked in a 3D
web scene, built a
3D model of
Venice, and more.
The term IoT,
which was first
proposed by Kevin

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Ashton, a British
technologist, in
1999 has the
potential to impact
everything from
new product
opportunities to
shop floor
optimization to
factory worker
efficiency gains,
that will power top-

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line and bottom-line gains. As IoT technology is being put to diversified use, the current technology needs to be improved to enhance privacy and built secure devices by adopting a

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security-focused approach, reducing the amount of data collected, increasing transparency and providing consumers with a choice to opt out. Therefore, the current volume

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has been compiled, in an effort to draw the various issues in IoT, challenges faced and existing solutions so far.

Key Points: •
Provides an overview of basic concepts and technologies of

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IoT with
communication
technologies
ranging from 4G
to 5G and its
architecture. •
Discusses recent
security and
privacy studies
and social
behavior of human
beings over IoT. •

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Covers the issues related to sensors, business model, principles, paradigms, green IoT and solutions to handle relevant challenges. •

Presents the readers with practical ideas of using IoT, how it

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deals with human dynamics, the ecosystem, the social objects and their relation. •

Deals with the challenges involved in surpassing diversified architecture, protocol,

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Today And Tomorrow
communications,
integrity and
security.

How the Internet of Things will change your life: all you need to know, in plain English! The Internet of Things (IoT) won ' t just connect people: It

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will connect

“ smart ” homes,
appliances, cars,
offices, factories,
cities... the world.

You need to know
what ' s coming: It
might just
transform your
life. Now, the
world ' s #1
author of

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Today And
Tomorrow
beginning
technology books

has written the

perfect

introduction to IoT

for everyone.

Michael Miller

shows how

connected smart

devices will help

people do more,

do it smarter, do it

do it smarter, do it

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faster. He also reveals the potential risks—to your privacy, your freedom, and maybe your life. Make no mistake: IoT is coming quickly. Miller explains why you care, helps you use what 's

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already here, and prepares you for the world that ' s hurtling toward you. --What is IoT? How does it work? How will it affect me? --What ' s realistic, and what ' s just hype? --How smart is my " smart TV "

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Today And
Tomorrow
really? (And, is it
watching me?)

--Can smart IoT
devices make me
healthier? --Will
smart appliances
ever be useful?

--How much
energy could I
save with a smart
home? --What 's
the future of

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wearable tech?

--When will I have
a self-driving car?

--When will I have
a nearly self-
driving car? (Hint:
Surprisingly soon.)

--Is IoT already
changing the way I
shop? --What ' s
the future of
drones, at war and

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in my
neighborhood?

--Could smart
cities lower my
taxes? --Who gets
the data my
devices are
collecting? --How
can I profit from
the Internet of
Things? --What
happens when the

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whole world is
connected? --Will I
have any privacy
left at all?

Apress is proud to
announce that
Rethinking the
Internet of Things
was a 2014 Jolt
Award Finalist, the
highest honor for
a programming

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book. And the amazing part is that there is no code in the book. Over the next decade, most devices connected to the Internet will not be used by people in the familiar way that personal

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computers, tablets
and smart phones
are. Billions of
interconnected
devices will be
monitoring the
environment,
transportation
systems, factories,
farms, forests,
utilities, soil and
weather

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conditions, oceans
and resources.

Many of these
sensors and
actuators will be
networked into
autonomous sets,
with much of the
information being
exchanged machine
e-to-machine
directly and

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without human involvement. Machine-to-machine communications are typically terse. Most sensors and actuators will report or act upon small pieces of information - "chirps".

Burdening these

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devices with current network protocol stacks is inefficient, unnecessary and unduly increases their cost of ownership. This must change. The architecture of the Internet of Things must evolve now

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by incorporating simpler protocols toward at the edges of the network, or remain forever inefficient.

Rethinking the Internet of Things describes reasons why we must rethink current

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approaches to the Internet of Things.

Appropriate architectures that will coexist with existing networking protocols are described in detail.

An architecture comprised of integrator

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functions,
propagator nodes,
and end devices,
along with their
interactions, is
explored. What
you ' ll learn
Discusses the
difference
between the
"normal" Internet
and the Internet of

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Things. Describes a new architecture and its components in the "chirp" context.

Explains the shortcomings of IP for IoT. Describes the anatomy of the IoT. Describes how to build a suitable network to

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maximize the
amazing potential
of the IoT. Who
this book is for
Thought leaders,
executives,
architectural,
standards and
development
leaders in the
evolving IoT
industry.

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Corporations and organizations whose commercial products could be adapted simply to be functioning devices on the IOT while saving billions of dollars in unnecessary costs or proprietary

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designs. Those
who wish to
capitalize on
technology change
and those
interested in the
Internet, its
capabilities and
the need to
improve it. Table
of
ContentsForeword

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Preface Chapter

Goal: The reader will understand the new demands and opportunities of the Internet of Things (IoT). The preface introduces the idea of a new, simplified architectural approach that

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draws on nature.

Chapter 1: It's

Different Out Here

Chapter Goal:

Reader should

understand the

difference

between

traditional Internet

networking and

the Internet of

Things. What are

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the unique characteristics of the IoT that demand a new architecture? Why traditional architectures such as IP are a poor fit. Characteristics of an IoT-optimized architecture.

Chapter 2:

Page 239/328

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Anatomy of the
Internet of Things

Chapter Goal:

Reader will
understand the
underlying
principles of the
emerging IoT
architecture.

Fundamental
concepts are: the
division of

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networking
complexity among
different devices;
the make-up of the
"Chirp" and how
they are
propagated;
distinctions
between transport
and functional
topologies; the
concept of

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neighborhoods or zones of interest.

Chapter 3: On the Edge Chapter Goal:

Reader will learn the principles and characteristics of the End Devices in the IoT and how these will often differ from our present

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understanding of the Smartphone, tablet, and laptop. How the minimal networking needs of many IoT devices dictate elements of the architecture.

Chapter 4:
Building a Web of
Things Chapter

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Goal: Reader will learn the characteristics and functionality of the Propagator node in the IoT Architecture. Some communications principles are introduced which will be more fully explored in

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Chapter 6. Chapter
5: Small Data, Big
Data, and Human
Interaction

Chapter Goal:

Reader will
understand the
role of Integrator
functions in the
IoT, the point in
the IoT where
humans interact to

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gain information from IoT data and to set parameters and control end devices. An explanation of zones of interest and neighborhoods, with a discussion of incorporating "small data" from

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chirps into big
data analysis.

Chapter 6: An
Architecture for
the Frontier

Chapter Goal:

Reader will gain
an understanding
of the challenges
inherent in a
communications
architecture for

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the massive scale
of the IoT.

Exploiting the
opportunities
inherent in a mach
ine-to-machine
environment, a
much simpler
architecture is
described in detail
that readily scales
to the required

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scope. This chapter adds technical depth to ideas introduced in Chapters 3-5. Chapter 7: IoT Examples and Applications Chapter Goal: Reader will learn about current and emerging

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applications in the
Internet of Things.

Reference will be

made to new

applications

enabled by the

simpler

architecture

described in this

book that are

difficult or not

possible with

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traditional
networking

protocols. Chapter
8: Blueprint to the
Internet of Things

Chapter Goal:

Exploring the
steps to IoT
deployment.

Standards based
versus ad hoc
approaches, call

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for industry
cooperation and
consortia.

Intermediate
incremental steps
to broader
adoption.

Rethinking the
Internet of
Things A Scalable
Approach to
Connecting

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EverythingApress
Delivering

Advanced Security
Capabilities from
Edge to Cloud for
IoT

The Definitive
Guide to Attacking
the Internet of
Things

Converging
Technologies for

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Smart
Environments and
Integrated
Ecosystems
Big Data and The
Internet of Things
Designing the
Internet of Things
The Enabling
Technologies for
the Internet of
Things

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The LegalTech
Book

This book explains IoT technology, its potential applications, the security and privacy aspects, the key necessities like governance, risk management, regulatory compliance needs, the philosophical aspects of this technology that are

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necessary to support an ethical, safe and secure digitally enhanced environment in which people can live smarter. It describes the inherent technology of IoT, the architectural components and the philosophy behind this emerging technology. Then it shows the various potential applications of the

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Internet of Things that can bring benefits to the human society. Finally, it discusses various necessities to provide a secured and trustworthy IoT service.

This book provides an overview of the Internet of Things (IoT) – covering new ideas, concepts, research and innovation to enable the development of IoT

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technologies in a global context. The work is intended as a standalone book in a series covering the activities of the Internet of Things European Research Cluster (IERC) – including research, technological innovation, validation, and deployment. The book chapters build on the developments and

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innovative ideas put forward by the IERC, the IoT European Large-Scale Pilots Programme and the IoT European Security and Privacy Projects – presenting new concepts, ideas and future IoT trends and ways of integrating open data frameworks and IoT marketplaces into larger deployment ecosystems. The IoT and

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Industrial Internet of Things technologies are moving towards hyperautomated solutions – combining hyperconnectivity, artificial intelligence (AI), distributed ledger technologies and virtual/augmented extended reality, with edge computing and deep edge processing becoming an assertive

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factor across industries for implementing intelligent distributed computing resources and data to keep the efficient data exchange and processing local to reduce latency, exploit the sensing/actuating capabilities and enable greater autonomy.

Expanding the adoption of consumer, business, industrial and tactile

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IoT requires further development of hyperautomated IoT concepts for collaborative solutions involving machines and humans to expand augmented creativity at the application level using AI to optimise the industrial processes and progress towards a symbiotic economy based on distributed

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*federated cloud/edge
infrastructure allowing
resource sharing in the
form of computing,
memory and analytics
capabilities. The
advances of autonomous
IoT applications
delivering services in
real-time encompasses
development in
servitisation,
robotisation,
automation and*

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*hyperconnectivity,
which are essential for
the rapid evolution of
industrial enterprises in
the new digital era. The
rise of digital twins
integrated into IoT
platforms as fully
interactive elements
embedded into the
simulation and
optimisation
environment, as well as
the embedment of AI*

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techniques and methods, enhances the accuracy and performance of models in the various IoT and Industrial Internet of Things applications. The convergence of technologies to provide scalable, interoperable IoT-enabled applications pushed the requirements for high bandwidth, low latency

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*and robust and
dependable connectivity
to support the
industry's demand for
deeper integration and
improved analytics to
deliver sustainable
competitive advantage
products and services,
enabling digital
transformation with a
focus on new business
models. Safety and
security are interlinked*

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for the next wave of IoT technologies and applications and combined, prove a greater value for rapid adoption. The new IoT technologies are essential for facilitating sustainable development, reducing energy consumption and, by supporting the optimisation of products and processes,

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*mitigating unnecessary
carbon emissions –
thereby reducing the
environmental impact
through real-time data
collection, analysis,
exchange, and
processing.*

*A technology expert
describes a possible
future, and its
repercussions in the
area of privacy, social
control and political*

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manipulation, of a world where more and more things, like eyeglasses, thermostats and home security systems are reliant on the Internet.

Emerging 2D Materials and Devices for the Internet of Things: Information, Sensing and Energy Applications

summarizes state-of-the-

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*art technologies in
applying 2D layered
materials, discusses
energy and sensing
device applications as
essential infrastructure
solutions, and explores
designs that will make
internet-of-things
devices faster, more
reliable and more
accessible for the
creation of mass-market
products. The book*

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focuses on information, energy and sensing applications, showing how different types of 2D materials are being used to create a new generation of products and devices that harness the capabilities of wireless technology in an eco-efficient, reliable way. This book is an important resource for both materials scientists

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and engineers, who are designing new wireless products in a variety of industry sectors.

Explores how 2D materials are being used to create faster and more reliable wireless network solutions

Discusses how graphene-based nanocomposites are being used for energy harvesting and storage applications

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Outlines the major challenges for integrating 2D materials in electronic sensing devices
Advancement in sensor technology, smart instrumentation, wireless sensor networks, miniaturization, RFID and information processing is helping towards the realization

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of Internet of Things (IoT). IoTs are finding applications in various area applications including environmental monitoring, intelligent buildings, smart grids and so on. This book provides design challenges of IoT, theory, various protocols, implementation issues and a few case study.

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*The book will be very
useful for postgraduate
students and*

researchers to know

from basics to

implementation of IoT.

Technologies,

Applications,

Challenges and

Solutions

Everything Intelligent

Everywhere

Internet of Things – The

Call of the Edge

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*Internet of Things A to Z
Sensors, Cloud, and Fog
Internet of Things (IoT)
How Smart TVs, Smart
Cars, Smart Homes, and
Smart Cities Are
Changing the World*

A guided tour
through the
Internet of Things,
a networked world
of connected
devices, objects,

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and people that is changing the way we live and work. We turn on the lights in our house from a desk in an office miles away. Our refrigerator alerts us to buy milk on the way home. A package of cookies on the

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supermarket shelf suggests that we buy it, based on past purchases. The cookies themselves are on the shelf because of a "smart" supply chain. When we get home, the thermostat has already adjusted

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the temperature so that it's toasty or bracing, whichever we prefer. This is the Internet of Things—a networked world of connected devices, objects, and people. In this book, Samuel Greengard offers a guided tour

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through this emerging world and how it will change the way we live and work.

Greengard explains that the Internet of Things (IoT) is still in its early stages. Smart phones, cloud computing, RFID (radio-

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frequency
identification)
technology, sensors,
and
miniaturization are
converging to make
possible a new
generation of
embedded and
immersive
technology.

Greengard traces

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the origins of the IoT from the early days of personal computers and the Internet and examines how it creates the conceptual and practical framework for a connected world. He explores the

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industrial Internet
and machine-to-
machine

communication, the
basis for smart
manufacturing and
end-to-end supply
chain visibility; the
growing array of
smart consumer
devices and
services—from

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Fitbit fitness
wristbands to
mobile apps for
banking; the
practical and
technical challenges
of building the IoT;
and the risks of a
connected world,
including a
widening digital
divide and threats

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to privacy and security. Finally, he considers the long-term impact of the IoT on society, narrating an eye-opening "Day in the Life" of IoT connections circa 2025.

The Internet of Things (IoT) is an

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emerging network
superstructure that
will connect
physical resources
and actual users. It
will support an
ecosystem of smart
applications and
services bringing
hyper-connectivity
to our society by
using augmented

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and rich interfaces.

Whereas in the beginning IoT referred to the advent of barcodes and Radio Frequency Identification (RFID), which helped to automate inventory, tracking and basic

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identification,
today IoT is
characterized by a
dynamic trend
toward connecting
smart sensors,
objects, devices,
data and
applications. The
next step will be
"cognitive IoT,"
facilitating object

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and data re-use
across application
domains and
leveraging hyper-
connectivity,
interoperability
solutions and
semantically
enriched
information
distribution. The
Architectural

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Reference Model
(ARM), presented
in this book by the
members of the IoT-
A project team
driving this
harmonization
effort, makes it
possible to connect
vertically closed
systems,
architectures and

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application areas so as to create open interoperable systems and integrated environments and platforms. It constitutes a foundation from which software companies can capitalize on the

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benefits of
developing

consumer-oriented
platforms including
hardware, software
and services. The
material is
structured in two
parts. Part A
introduces the
general concepts
developed for and

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Today And Tomorrow

applied in the ARM. It is aimed at end users who want to use IoT technologies, managers interested in understanding the opportunities generated by these novel technologies, and system

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architects who are interested in an overview of the underlying basic models. It also includes several case studies to illustrate how the ARM has been used in real-life scenarios. Part B then addresses the

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topic at a more detailed technical level and is targeted at readers with a more scientific or technical background. It provides in-depth guidance on the ARM, including a detailed description

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of a process for generating concrete architectures, as well as reference manuals with guidelines on how to use the various models and perspectives presented to create a concrete architecture.

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Furthermore, best practices and tips on how system engineers can use the ARM to develop specific IoT architectures for dedicated IoT solutions are illustrated and exemplified in reverse mapping

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exercises of existing standards and platforms.

This hands-on introductory guide will quickly show how to program embedded devices using the .NET Micro Framework and the Netduino Plus board, and

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then connect these devices to the Internet using Pachube, a cloud platform for sharing real-time sensor data.

The definitive guide to hacking the world of the Internet of Things (IoT) -- Internet

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connected devices such as medical devices, home assistants, smart home appliances and more. Drawing from the real-life exploits of five highly regarded IoT security researchers, Practical IoT

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Hacking teaches you how to test IoT systems, devices, and protocols to mitigate risk. The book begins by walking you through common threats and a threat modeling framework. You'll develop a security

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testing methodology, discover the art of passive reconnaissance, and assess security on all layers of an IoT system. Next, you'll perform VLAN hopping, crack MQTT authentication,

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abuse UPnP,
develop an mDNS
poisoner, and craft
WS-Discovery
attacks. You'll
tackle both
hardware hacking
and radio hacking,
with in-depth
coverage of attacks
against embedded
IoT devices and

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RFID systems.

You'll also learn how to:

- Write a DICOM service scanner as an NSE module
- Hack a microcontroller through the UART and SWD interfaces
- Reverse engineer firmware and

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analyze mobile
companion apps •
Develop an NFC
fuzzer using
Proxmark3 • Hack
a smart home by
jamming wireless
alarms, playing
back IP camera
feeds, and
controlling a smart
treadmill The tools

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and devices you'll use are affordable and readily available, so you can easily practice what you learn. Whether you're a security researcher, IT team member, or hacking hobbyist, you'll find Practical IoT

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indispensable in
your efforts to hack
all the things

REQUIREMENTS

: Basic knowledge
of Linux command
line, TCP/IP, and
programming

The Internet of
Things (IoT) is one
of the core

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technologies of current and future information and communications technology (ICT) sectors. IoT technologies will be deployed in numerous industries, including health, transport, smart

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cities, utility sectors, environment, security, and many other areas. In a manner suitable to a broad range of readers, this book introduces various key IoT technologies focusing on

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algorithms, process algebra, network architecture, energy harvesting, wireless communications, and network security. It presents IoT system design techniques, international IoT standards, and

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recent research outcomes relevant to the IoT system developments and provides existing and emerging solutions to the design and development of IoT platforms for multi-sector industries, particularly for

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Industry 4.0. The book also addresses some of the regulatory issues and design challenges related to IoT system deployments and proposes guidelines for possible future applications.

Systems and

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Applications
Enabling Things to
Talk

Pax Technica
Orchestrating and
Automating
Security for the
Internet of Things
Technologies and
Applications

Internet of Things
Implement New

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Business Models,
Disrupt

Competitors,

Transform Your

Industry

Internet of Things

(IoT) is a new

platform of

various physical

objects or “things

equipped with

sensors,

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electronics, smart devices, software, and network connections. IoT represents a new revolution of the Internet network which is driven by the recent advances of technologies such as sensor

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networks

(wearable and
implantable),
mobile devices,
networking, and
cloud computing
technologies. IoT
permits these the
smart devices to
collect, store and
analyze the
collected data

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with limited
storage and
processing
capacities. Swarm
Intelligence for
Resource
Management in
the Internet of
Things presents a
new approach in
Artificial
Intelligence that

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can be used for
resources

management in
IoT, which is
considered a
critical issue for
this network. The
authors
demonstrate
these resource
management
applications using

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swarm
intelligence
techniques.

Currently, IoT can
be used in many
important
applications
which include
healthcare, smart
cities, smart
homes, smart
hospitals,

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environment
monitoring, and
video
surveillance. IoT
devices cannot
perform complex
on-site data
processing due to
their limited
battery and
processing.
However, the

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major processing unit of an application can be transmitted to other nodes, which are more powerful in terms of storage and processing. By applying swarm intelligence algorithms for IoT

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devices, we can provide major advantages for energy saving in IoT devices.

Swarm Intelligence for Resource Management in the Internet of Things shows the reader how to

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overcome the
problems and
challenges of
creating and
implementing
swarm
intelligence
algorithms for
each application
Examines the
development and
application of

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swarm
intelligence
systems in
artificial
intelligence as
applied to the
Internet of Things
Discusses
intelligent
techniques for the
implementation of
swarm

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intelligence in IoT
Prepared for
researchers and
specialists who
are interested in
the use and
integration of IoT
and cloud
computing
technologies
Designing IoT
solutions with the

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IoT Architectural
Reference Model

Information,

Sensing and

Energy

Applications

How the Internet
of Things May Set

Us Free Or Lock

Us Up

How Smart TVs,

Smart Cars,

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Tomorrow
Smart Homes,
and Smart Cities
are Changing the
World

Internet of
Things, for
Things, and by
Things

Frameworks for
Enabling and
Emerging
Technologies

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Connecting
Sensors and
Microcontrollers
to the Cloud