

Internet of Things

A HANDS-ON APPROACH



Arshdeep Bahga • Vijay Madisetti

University Press

Internet Of Things By Arshdeep Bahga

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Internet of Things: A Hands-On Approach Arshdeep Bahga,Vijay Madiseti,2014-08-09 Internet of Things IoT refers to physical and virtual objects that have unique identities and are connected to the internet to facilitate intelligent applications that make energy logistics industrial control retail agriculture and many other domains smarter Internet of Things is a new revolution of the Internet that is rapidly gathering momentum driven by the advancements in sensor networks mobile devices wireless communications networking and cloud technologies Experts forecast that by the year 2020 there will be a total of 50 billion devices things connected to the internet This book is written as a textbook on Internet of Things for educational programs at colleges and universities and also for IoT vendors and service providers who may be interested in offering a broader perspective of Internet of Things to accompany their own customer and developer training programs The typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics STEM fields Like our companion book on Cloud Computing we have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world IoT applications Additional support is available at the book s website www.internetofthingsbook.com Organization The book is organized into 3 main parts comprising of a total of 11 chapters Part I covers the building blocks of Internet of Things IoTs and their characteristics A taxonomy of IoT systems is proposed comprising of various IoT levels with increasing levels of complexity Domain specific Internet of Things and their real world applications are described A generic design methodology for IoT is proposed An IoT system management approach using NETCONF YANG is described Part II introduces the reader to the programming aspects of Internet of Things with a view towards rapid prototyping of complex IoT applications We chose Python as the primary programming language for this book and an introduction to Python is also included within the text to bring readers to a common level of expertise We describe packages frameworks and cloud services including the WAMP AutoBahn Xively cloud and Amazon Web Services which can be used for developing IoT systems We chose the Raspberry Pi device for the examples in this book Reference architectures for different levels of IoT applications are examined in detail Case studies with complete source code for various IoT domains including home automation smart environment smart cities logistics retail smart energy smart agriculture industrial control and smart health are described Part III introduces the reader to advanced topics on IoT including IoT data analytics and Tools for IoT Case studies on collecting and analyzing data generated by Internet of Things in the cloud are described

Embedded systems and IoT A Theoretical Approach Dr. G Vimala Kumari,Dr. Vemuri Sailaja,Dr.Pamarthi Sunitha,Mrs.B.Vasantha Lakshmi ,2022-06-01 This book aims to provide a broad view of the Embedded systems and IoT A Theoretical Approach Embedded Systems and the Internet of Things are well known in various

engineering fields It provides a logical method of explaining various complicated concepts and stepwise methods to explain important topics Each chapter is well supported with the necessary illustrations All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies EMBEDDED SYSTEMS AND INTERNET OF THINGS are an important research area The techniques developed in this area so far require to be summarized appropriately In this book the fundamental theories of these techniques are introduced The brief content of this book is as follows CHAPTER 1 BASIC OF EMBEDDED SYSTEMS CHAPTER 2 EMBEDDED FIRMWARE CHAPTER 3 REAL TIME OPERATING SYSTEM CHAPTER 4 INTRODUCTION TO INTERNET OF THINGS CHAPTER 5 IoT PROTOCOLS CHAPTER 6 IoT ARCHITECTURE CHAPTER 7 CHALLENGES AND APPLICATIONS OF IOT CHAPTER 8 DATA ANALYTICS FOR IOT CHAPTER 9 IoT PHYSICAL DEVICES AND ENDPOINTS CHAPTER 10 INTERNET OF EVERYTHING IoE CHAPTER 11 IOT APPLICATIONS CASE STUDIES This book is original in style and method No pains have been spared to make it as compact perfect and reliable as possible Every attempt has been made to make the book a unique one In particular this book can be very useful for practitioners and engineers interested in this area Hopefully the chapters presented in this book have just done that

Emerging Real-World Applications of Internet of Things Anshul Verma, Pradeepika Verma, Yousef Farhaoui, Zhihan Lv, 2022-11-24 The Internet of things IoT is a network of connected physical objects or things that are working along with sensors wireless transceiver modules processors and software required for connecting processing and exchanging data among the other devices over the Internet These objects or things are devices ranging from simple handheld devices to complex industrial heavy machines A thing in IoT can be any living or non living object that can be provided capabilities to sense process and exchange data over a network The IoT provides people with the ability to handle their household works to industrial tasks smartly and efficiently without the intervention of another human The IoT provides smart devices for home automation as well as business solutions for delivering insights into everything from real time monitoring of working systems to supply chain and logistics operations The IoT has become one of the most prominent technological inventions of the 21st century Due to the versatility of IoT devices there are numerous real world applications of the IoT in various domains such as smart home smart city health care agriculture industry and transportation The IoT has emerged as a paradigm shifting technology that is influencing various industries Many companies governments and civic bodies are shifting to IoT applications to improve their works and to become more efficient The world is slowly transforming toward a smart world with smart devices As a consequence it shows many new opportunities coming up in the near smart future for IoT professionals Therefore there is a need to keep track of advancements related to IoT applications and further investigate several research challenges related to the applicability of IoT in different domains to make it more adaptable for practical and industrial use With this goal this book provides the most recent and prominent applications of IoT in different domains as well as issues and challenges in developing IoT applications for various new domains Smart IoT for Research and Industry Melody

Moh, Kanta Prasad Sharma, Rashmi Agrawal, Vicente Garcia Diaz, 2021-07-15 This book covers a variety of smart IoT applications for industry and research For industry the book is a guide for considering the real time aspects of automation of application domains The main topics covered in the industry section include real time tracking and navigation smart transport systems and application for GPS domains modern electric grid control for electricity industry IoT perspectives for modern society IoT for modern medical science and IoT automation for Industry 4.0 The book then provides a summary of existing IoT research that underlines enabling technologies such as fog computing wireless sensor networks data mining context awareness real time analytics virtual reality and cellular communications The book pertains to researchers outcome based academic leaders as well as industry leaders *Shaping the Future of ICT* Ibrahim M. M. El Emary, Anna

Brzozowska, 2017-09-19 The International Conference on Communications Management and Information Technology ICCMIT 16 provides a discussion forum for scientists engineers educators and students about the latest discoveries and realizations in the foundations theory models and applications of systems inspired on nature using computational intelligence methodologies as well as in emerging areas related to the three tracks of the conference Communication Engineering Knowledge and Information Technology The best 25 papers to be included in the book will be carefully reviewed and selected from numerous submissions then revised and expanded to provide deeper insight into trends shaping future ICT

Blockchain Technology and Applications Pethuru Raj, Kavita Saini, Chellammal Surianarayanan, 2020-09-16 Blockchain is emerging as a powerful technology which has attracted the wider attention of all businesses across the globe In addition to financial businesses IT companies and business organizations are keenly analyzing and adapting this technology for improving business processes Security is the primary enterprise application There are other crucial applications that include creating decentralized applications and smart contracts which are being touted as the key differentiator of this pioneering technology The power of any technology lies in its ecosystem Product and tool vendors are building and releasing a variety of versatile and robust toolsets and platforms in order to speed up and simplify blockchain application development deployment and management There are other infrastructure related advancements in order to streamline blockchain adoption Cloud computing big data analytics machine and deep learning algorithm and connected and embedded devices all are driving blockchain application development and deployment Blockchain Technology and Applications illustrates how blockchain is being sustained through a host of platforms programming languages and enabling tools It examines Data confidentiality integrity and authentication Distributed consensus protocols and algorithms Blockchain systems design criteria and systems interoperability and scalability Integration with other technologies including cloud and big data It also details how blockchain is being blended with cloud computing big data analytics and IoT across all industry verticals The book gives readers insight into how this path breaking technology can be a value addition in several business domains ranging from healthcare financial services government supply chain and retail *Machine Learning Applications* Indranath

Chatterjee,Sheetal Zalte,2023-12-27 Machine Learning Applications Practical resource on the importance of Machine Learning and Deep Learning applications in various technologies and real world situations Machine Learning Applications discusses methodological advancements of machine learning and deep learning presents applications in image processing including face and vehicle detection image classification object detection image segmentation and delivers real world applications in healthcare to identify diseases and diagnosis such as creating smart health records and medical imaging diagnosis and provides real world examples case studies use cases and techniques to enable the reader s active learning Composed of 13 chapters this book also introduces real world applications of machine and deep learning in blockchain technology cyber security and climate change An explanation of AI and robotic applications in mechanical design is also discussed including robot assisted surgeries security and space exploration The book describes the importance of each subject area and detail why they are so important to us from a societal and human perspective Edited by two highly qualified academics and contributed to by established thought leaders in their respective fields Machine Learning Applications includes information on Content based medical image retrieval CBMIR covering face and vehicle detection multi resolution and multisource analysis manifold and image processing and morphological processing Smart medicine including machine learning and artificial intelligence in medicine risk identification tailored interventions and association rules AI and robotics application for transportation and infrastructure e g autonomous cars and smart cities along with global warming and climate change Identifying diseases and diagnosis drug discovery and manufacturing medical imaging diagnosis personalized medicine and smart health records With its practical approach to the subject Machine Learning Applications is an ideal resource for professionals working with smart technologies such as machine and deep learning AI IoT and other wireless communications it is also highly suitable for professionals working in robotics computer vision cyber security and more

Blockchain in Energy Jan Veuger,2024-02-06 The global energy crisis is accelerating and within Europe the European Union EU is actively working to address this challenge through policy frameworks and political management However the energy market remains fiercely competitive prompting us to explore alternative energy sources and rethink how we generate distribute and utilize power This in turn raises questions about the allocation of power energy availability and usage in various contexts Furthermore the digital realm is undergoing rapid transformation across multiple sectors Drawing on my expertise in blockchain technology I recognize numerous opportunities to enhance the transparency and reliability of data related to energy issues By leveraging blockchain we can ensure that the information available is trustworthy and insightful for every user The aim of this book is to share my knowledge in the realm of energy and blockchain It addresses the urgency of addressing global energy challenges and acknowledges the pivotal role of the EU in this endeavor It also highlights the intensity of competition in the energy market and the need for innovative approaches The book also demonstrates how blockchain can contribute to solving these issues empowering individuals and organizations with reliable information and

insights in the field of energy and blockchain technology Big Data Science & Analytics Arshdeep Bahga, Vijay Madiseti, 2016-04-15 Big data is defined as collections of datasets whose volume velocity or variety is so large that it is difficult to store manage process and analyze the data using traditional databases and data processing tools We have written this textbook to meet this need at colleges and universities and also for big data service providers *Internet of Things From Hype to Reality* Ammar Rayes, Samer Salam, 2016-10-22 This book comprehensively describes an end to end Internet of Things IoT architecture that is comprised of devices network compute storage platform applications along with management and security components It is organized into five main parts comprising of a total of 11 chapters Part I presents a generic IoT reference model to establish a common vocabulary for IoT solutions This includes a detailed description of the Internet protocol layers and the Things sensors and actuators as well as the key business drivers to realize the IoT vision Part II focuses on the IoT requirements that impact networking protocols and provides a layer by layer walkthrough of the protocol stack with emphasis on industry progress and key gaps Part III introduces the concept of Fog computing and describes the drivers for the technology its constituent elements and how it relates and differs from Cloud computing Part IV discusses the IoT services platform the cornerstone of the solution followed by the Security functions and requirements Finally Part V provides a treatment of the topic of connected ecosystems in IoT along with practical applications It then surveys the latest IoT standards and discusses the pivotal role of open source in IoT Faculty will find well crafted questions and answers at the end of each chapter suitable for review and in classroom discussion topics In addition the material in the book can be used by engineers and technical leaders looking to gain a deep technical understanding of IoT as well as by managers and business leaders looking to gain a competitive edge and understand innovation opportunities for the future Dr Jim Spohrer IBM This text provides a very compelling study of the IoT space and achieves a very good balance between engineering technology focus and business context As such it is highly recommended for anyone interested in this rapidly expanding field and will have broad appeal to a wide cross section of readers i e including engineering professionals business analysts university students and professors Professor Nasir Ghani University of South Florida **The Internet of Things**, 2021-07-15 As the number of digital devices used in daily life grows it comes as no surprise that the next step in technological evolution is to conveniently interconnect these devices This is where the Internet of Things fits in The Internet of Things refers to all devices that are connected to the internet and share data on it but there are numerous applications for this technology ranging from smartphones to driverless cars Despite the convenience smart devices offer they also raise significant concerns about data privacy and security Readers will encounter contrasting viewpoints on this timely and evolving issue **Internet of Things** Ovidiu Vermesan, Peter Friess, 2013 Today we see the integration of Industrial Business and Consumer Internet This integration is bringing together the Internet of People Internet of Things Internet of Energy Internet of Vehicles and Internet of Media Services and Enterprises In this way it forms the backbone of the digital economy and digital society and the

foundation for the future knowledge and innovation based economy in supporting solutions for the emerging challenges of public health aging population environmental protection and climate change the conservation of energy and scarce materials enhancements to safety and security and the continuation and growth of economic prosperity Penetration of smartphones and advances in machine to machine M2M and wireless communication technology will be the main drivers for Internet of Things IoT development The IoT contribution is in the increased value of information created by the number of interconnections and the transformation of the processed information into knowledge shared in the Internet of Everything The connected devices are part of ecosystems connecting people processes data and things which are communicating in the cloud using the increased storage and computing power and pushing for standardization of communication and metadata In this context the next generation of the cloud technologies will need to be flexible enough to scale autonomously adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows in data that will occur For 2025 analysts forecast that there will be six devices per human on the planet which means 50 billion more connected devices over the next 12 years The IoT market is connected to this growth from industrial M2M systems smart meters and wireless sensors Enabling technologies such as nanoelectronics MEMS embedded systems intelligent device management smart phones telematics smart network infrastructure cloud computing and software technologies will create new products new services and new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities smart transport buildings energy and grid to smart health and life Internet of Things provides a broad overview of various topics of the IoT from the research and development priorities to enabling technologies architecture security privacy interoperability and industrial applications It is intended to be a standalone book in a series that covers the IoT activities of the Internet of Things European Research Cluster IERC from technology to international cooperation and the global state of play The book builds on the ideas put forward by the IERC Strategic Research Agenda and presents global views and state of the art results on the challenges that the research development and deployment of IoT faces at the global level Technical topics discussed in the book include Introduction Internet of Things in a wider context Time for convergence Internet of Things Strategic Research Agenda Interconnection and Integration of the Physical World into the Digital World Scalable Architectures for IoT Applications IoT standardisation requirements and initiatives Standardisation and Innovation Service Openness and Interoperability Software define and virtualization of network resources Mobile devices enable IoT evolution from industrial applications to mass consumer applications Innovation through Interoperability and Standardisation when everything is connected anytime at anyplace

Internet of Things Rajkumar Buyya, Amir Vahid Dastjerdi, 2016-05-11

Internet of Things Principles and Paradigms captures the state of the art research in Internet of Things its applications architectures and technologies The book identifies potential future directions and technologies that facilitate insight into numerous scientific business and consumer applications The Internet of Things IoT paradigm promises to make any

electronic devices part of the Internet environment This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources To help realize the full potential of IoT the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them These challenges include the development of scalable architecture moving from closed systems to open systems designing interaction protocols autonomic management and the privacy and ethical issues around data sensing storage and processing Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust security and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

Internet of Things and Its Applications Sachi Nandan Mohanty, Jyotir Moy Chatterjee, Suneeta Satpathy, 2021-11-25 This book offers a holistic approach to the Internet of Things IoT model covering both the technologies and their applications focusing on uniquely identifiable objects and their virtual representations in an Internet like structure The authors add to the rapid growth in research on IoT communications and networks confirming the scalability and broad reach of the core concepts The book is filled with examples of innovative applications and real world case studies The authors also address the business social and legal aspects of the Internet of Things and explore the critical topics of security and privacy and their challenges for both individuals and organizations The contributions are from international experts in academia industry and research

Internet of Things in Business Transformation Parul Gandhi, Surbhi Bhatia, Abhishek Kumar, Mohammad Ali Alojail, Pramod Singh Rathore, 2020-12-16 The objective of this book is to teach what IoT is how it works and how it can be successfully utilized in business This book helps to develop and implement a powerful IoT strategy for business transformation as well as project execution Digital change business creation change and upgrades in the ways and manners in which we work live and engage with our clients and customers are all enveloped by the Internet of Things which is now named Industry 5.0 or Industrial Internet of Things The sheer number of IoT a billion demonstrates the advent of an advanced business society led by sustainable robotics and business intelligence This book will be an indispensable asset in helping businesses to understand the new technology and thrive

Internet of Things Dr. Alkawati Magadam, Dr. Monica P. Goud, Dr. Rachana Chavan, 2024-09-02 Internet of Things explores the transformative impact of interconnected devices on everyday life and industry Architectures and technologies driving the IoT revolution including sensors networks and data analytics It examines real world applications across sectors such as healthcare agriculture and smart cities highlighting challenges like security and data privacy Through practical case studies the book illustrates how IoT enhances efficiency drives innovation and shapes a more connected future making it essential reading for professionals and enthusiasts seeking

to understand this dynamic field

Internet of Things Pramod R. Gunjal, Satish R. Jondhale, Jaime Lloret Mauri, Karishma Agrawal, 2024-03-14 This book addresses the fundamental technologies architectures application domains and future research directions of the Internet of Things IoT It also discusses how to create your own IoT system according to applications requirements and it presents a broader view of recent trends in the IoT domain and open research issues This book encompasses various research areas such as wireless networking advanced signal processing IoT and ubiquitous computing Internet of Things Theory to Practice discusses the basics and fundamentals of IoT and real time applications as well as the associated challenges and open research issues The book includes several case studies about the use of IoT in day to day life The authors review various advanced computing technologies such as cloud computing fog computing edge computing and Big Data analytics that will play crucial roles in future IoT based services The book provides a detailed role of blockchain technology Narrowband IoT NB IoT wireless body area network WBAN LoRa a longrange low power platform and Industrial IoT IIoT in the 5G world This book is intended for university college students as well as amateur electronic hobbyists and industry professionals who are looking to stay current in the IoT domain

Internet of Things Kolla Bhanu Prakash, 2020-10-26 This book explains the fundamentals of the Internet of Things from different architectures for managing IoT platforms to the insights on trust security and privacy in IoT environments including consumer electronic devices or home applications This opens the doors to new innovations that will build novel interactions among things and humans and enables the realization of smart cities infrastructures and services The book presents a complete overview on the research and the technology of this rapidly emerging topic

Internet of Things A to Z Qusay F. Hassan, 2018-06-13 A comprehensive overview of the Internet of Things core concepts technologies and applications Internet of Things A to Z offers a holistic approach to the Internet of Things IoT model The Internet of Things refers to uniquely identifiable objects and their virtual representations in an Internet like structure Recently there has been a rapid growth in research on IoT communications and networks that confirms the scalability and broad reach of the core concepts With contributions from a panel of international experts the text offers insight into the ideas technologies and applications of this subject The authors discuss recent developments in the field and the most current and emerging trends in IoT 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 date volume on the topic This important book Covers in great detail the core concepts enabling technologies and implications of the Internet of Things Addresses the business social and legal aspects of the Internet of Things Explores the critical topic of security and privacy challenges for both individuals and organizations Includes a discussion of advanced topics such as the need for standards and interoperability Contains contributions from an international group of experts in academia industry and research Written for ICT researchers industry professionals and lifetime IT learners as well as academics and students Internet of Things A to Z provides a much needed and comprehensive resource to this burgeoning field

Internet of Things

(IoT) Lakhwani Dr Kamlesh, 2020-03-03 A Systematic Approach to Learn the Principles Paradigms and Applications of Internet of Things Key Features a IoT applications in various sectors like Education Smart City Politics Healthcare Agriculture etc a Adoption of the IoT technology and strategies for various sectors a To present case studies and innovative applications of the IoT a To analyze and present the state of the art of the IoT and related technologies and methodologies a To propose new models practical solutions and technological advances of the IoT Description In this book Principles Paradigm frameworks and Applications of IoT Internet of Things in the modern era are presented It also provides a sound understanding of the IoT concepts architecture and applications and improves the awareness of readers about IoT technologies and application areas A key objective of this book is to provide a systematic source of reference for all aspects of IoT This book comprises nine chapters with close co operation and contributions from four different authors spanning across four countries and providing a global broad perspective on major topics on the Internet of Things What will you learn a Become aware of the IoT components their connectivity to form the IoT altogether and future possibilities with IoT a Understand how the various components of cloud computing work together to form the basic architecture of cloud computing a Examine the relationship between the various layers in the IoT architecture a Understand the programming framework for the Internet of Things IoT and various programming paradigms Who this book is for This book is intended for professionals researchers instructors and designers of a smart system who will benefit from reading this book Table of Contents 1 IoT Introduction 2 IoT Architectures and Protocols 3 Programming Framework for IoT 4 Virtualization and IoT 5 Security Privacy and Challenges in IoT 6 IoT Applications Areas 7 IoT and Cloud 8 Smart City Using IoT integration 9 Case Studies 10 Important Key Terms 11 References About the Author Dr Kamlesh Lakhwani works as an Associate Professor in the Department of Computer Science and Engineering at Lovely Professional University Punjab India He has an excellent academic background and a rich experience of 13 years as an academician and researcher in Asia He is certified by Google and Coursera for the demanding course e Architecting with Google Compute Engine He has several awards to his credit such as Best Research Paper Award and Research Appreciation Award from Lovely Professional University Punjab India topper for course Cloud Computing by NPTEL an initiative by seven Indian Institutes of Technology IIT Bombay Delhi Guwahati Kanpur Kharagpur Madras and Roorkee and Indian Institute of Science IISc Appreciation Award for e Commendable Contribution in Academics and All round Developmente from the Management of VIT Jaipur Rajasthan India and three Performance Incentives Award from Poornima College of Engineering Jaipur Rajasthan India He is an active member of many international societies associations such as CSI ICSES and IAENG Under the institute industry linkage program he delivers expert lectures on varied themes pertaining to Computer Science and Information Technology As a prolific writer in the arena of Computer Sciences and Engineering he has penned down a number of learning material on C C Multimedia Systems Cloud Computing etc He has one published patent in his credit and has contributed to more than 40 research papers in the conferences journals seminars of

international and national repute His area of interest includes Cloud Computing Internet of Things Computer Vision Image Processing Video Processing and Machine Learning LinkedIn Profile <https://www.linkedin.com/in/dr-kamlesh-lakhwani-7119944b> Dr Hemant Kumar Gianey obtained his PhD from Rajasthan M Tech CSE from the Rajasthan Technical University Kota Rajasthan and B E from the Rajasthan University Jaipur Rajasthan India Presently he is working as a Post Doctoral Researcher in the National Chen Kung University of Taiwan and as a lecturer at Thapar Institute of Engineering and Technology Patiala Punjab India He has about 15 years experience 8 years in teaching and 7 years in the industry His research interests include Big Data Analytics Data Mining and Machine Learning He has conducted many workshops FDPs Faculty Development Programs on Big Data Analytics at different colleges in India He has also delivered guest lectures in colleges universities in India He has published 15 research papers in peer reviewed international journals and conferences Dr Hemant is also a reviewer of various reputed international journals in Elsevier Springer IEEE Bentham Science and IOS Press He is an active member and helps organize many international seminars workshops and international conferences LinkedIn Profile <https://www.linkedin.com/in/dr-hemant-kumar-gianey-05174186> Joseph Kofi Wireko is a full time faculty member at the Faculty of IT Business of the Ghana Technology University College GTUC in Accra and Research Fellow in the Aalborg University Denmark He has over 20 years experience in Academics Industries and Research work in Africa and Europe He holds a Master of Science degree MSc in International Marketing and Strategy from the Norwegian School of Management BI He also has a Master of Business Administration MBA marketing degree from the University of Ghana after successfully completing his undergraduate studies in Geography and Resource Development with Political Science B A Hons from the same university Joseph s recent academic achievement prior to undertaking his PhD studies Aalborg University Denmark has been the completion of a post graduate Certificate in Higher Education PgCert HE from the University of Coventry UK His recent research interest is in the studies of the intersection of information technology and marketing He is interested in how to leverage technology particularly the Internet in the socio economic challenges in developing countries in the area of smart cities concept application digital marketing online retailing and the sharing economy On one hand he studies how data particularly data that profiles individuals and depicts their social relationships is gathered processed and applied by firms to acquire and retain customers on the other hand he studies how stakeholders particularly municipal and city authorities and policymakers can leverage the presence and the ubiquitous nature of the Internet in creating demand driven and multi modal transportation systems especially in developing countries LinkedIn Profile <https://www.linkedin.com/in/joseph-wireko-19048a14> Kamal Kant Hiran works as an Assistant Professor in the School of Engineering at the Sir Padampat Singhania University SPSU Udaipur Rajasthan India and also as a Research Fellow at the Aalborg University Copenhagen Denmark He has a rich experience of 15 years as an academician and researcher in Asia Africa and Europe He has several awards to his credit such as International travel grant for Germany from ITS Europe Gold Medal Award in M Tech ICT IEEE

Ghana Section Award IEEE Senior Member Recognition IEEE Student Branch Award Elsevier Reviewer Recognition Award and the Best Research Paper Award from the University of Gondar Ethiopia He has published 38 research papers in peer reviewed international journals and conferences He has authored the book e Cloud Computing Concepts Architecture and Applicationse which was published in 2019 by Asia s largest publisher BPB New Delhi He has also authored the book e The Proliferation of Smart Devices on Mobile Cloud Computinge which was published by Lambert Academic Publishing Germany He is a reviewer and an editorial board member of various reputed international journals in Elsevier Springer IEEE Transactions Bentham Science IGI Global IJSET IJTEE IJSTR and IJERT He is an active member and helps organize many international seminars workshops and conferences in India Ghana Liberia Denmark Germany Jordan and Ethiopia Web [http www kamalahiran in](http://www.kamalahiran.in) LinkedIn Profile <https://www.linkedin.com/in/kamal-kant-hiran-4553b643>

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Internet Of Things By Arshdeep Bahga Introduction

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