Tcl Code For Wormhole Attack

The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication (ICRAC 2017) organized by IMPLab Research and Innovation Foundation, Bhopal, India. The book covers all aspects of computers and communication techniques including pervasive computing, distributed computing, cloud computing, sensor and adhoc network, image, text and speech processing, pattern recognition and pattern analysis, digital signal processing, digital electronics,

telecommunication technologies, robotics, VLSI technologies, embedded system, satellite communication, digital signal processing, and digital communication. The papers included are original research works of experts from industry, government centers and academic institutions; experienced in engineering, design and research. This book highlights cutting-edge research on various aspects of human–computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar

Technological University in Lonere-Raigad, India on January 26–27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing

technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web

services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid

computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

Python for Software Design is a concise introduction to software design using the Python programming language. The focus is on the programming process, with special emphasis on debugging. The book includes a wide range of exercises, from short examples to substantial projects, so that students have ample opportunity to practice each new concept.

Cloud Computing

Issues, Challenges and Research Trends

20th International Workshop, PATMOS 2010, Grenoble, France, September 7-10, 2010, Revised Selected Papers

99 Tricks and Traps for Oracle Primavera P6 PPM Professional

Design Frameworks for Wireless Networks

Distributed and Cloud Computing

International Conference on Communication, Computing & Systems

Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such

as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a

detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing

Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the

insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25–26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The

book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

This book quickly gets down to the issues that many people grapple with when trying to use some of the more advanced features of the software and enlightens readers on the traps that some users fall into and how to avoid them. It demonstrates how the software ticks and explains some tricks that may be used to become more productive with the software. Suitable for people who understand the basics of P6

but want a short guide to give them insight into the less intuitive features of the software. It is packed with screen shots, constructive tips and is written in plain English. The book is based on the P6 Version 18 but may be used with earlier versions of P6 as this book points out the differences where appropriate. The book picks out many of the key aspects from the author's exiting books and adds a substantial amount of new and original text to produce a pocket guide that omits describing the intuitive and obvious functions and concentrates on the issues that many users get stuck on or find hard to understand.

Opportunistic networks allow mobile users to share information without any network infrastructure.This book is suitable for both undergraduates and postgraduates as it discusses various aspects of opportunistic networking including, foundations of ad hoc network; taxonomy of mobility models, etc.

Volume 1

ComNet 2016

Fundamentals of Wireless Sensor Networks

Architectures and Protocols

Algorithms and Protocols for Wireless Sensor Networks

19th International Workshop, PATMOS 2009, Delft,

The Netherlands, September 9-11, 2009, Revised Selected Papers

Proceedings of International Conference, ICERECT 2012

This book presents the proceedings of the 4th International Conference on Internet of Things and Connected Technologies (ICIoTCT), held on May 9–10, 2019, at Malaviya National Institute of Technology (MNIT), Jaipur, India. The Internet of Things (IoT) promises to usher in a revolutionary, fully interconnected "smart" world, with relationships between objects and their environment and objects and people becoming more tightly intertwined. The prospect of the Internet of Things as a ubiquitous array of devices bound to the Internet could

fundamentally change how people think about what it means to be "online". The ICIotCT 2019 conference provided a platform to discuss advances in Internet of Things (IoT) and connected technologies, such as various protocols and standards. It also offered participants the opportunity to interact with experts through keynote talks, paper presentations and discussions, and as such stimulated research. With the recent adoption of a variety of enabling wireless communication technologies, like RFID tags, BLE, ZigBee, embedded sensor and actuator nodes, and various protocols such as CoAP, MQTT and DNS, IoT has moved on from its infancy. Today smart sensors can collaborate directly with machines to automate decision-making or to control a task without human involvement. Further, smart technologies, including green electronics, green radios, fuzzy

neural approaches, and intelligent signal processing techniques play an important role in the development of the wearable healthcare devices.

This book constitutes the refereed proceedings of the 20th International Conference on Integrated Circuit and System Design, PATMOS 2010, held in Grenoble, France, in September 2010. The 24 revised full papers presented and the 9 extended abstracts were carefully reviewed and are organized in topical sections on design flows; circuit techniques; low power circuits; self-timed circuits; process variation; high-level modeling of poweraware heterogeneous designs in SystemC-AMS; and minalogic.

This two-volume set (CCIS 201 and CCIS 202) constitutes the refereed proceedings of the International Conference on

Computer Science and Education, CSE 2011, held in Qingdao, China, in July 2011. The 164 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions. The papers address a large number of research topics and applications: from artificial intelligence to computers and information technology; from education systems to methods research and other related issues; such as: database technology, computer architecture, software engineering, computer graphics, control technology, systems engineering, network, communication, and other advanced technology, computer education, and life-long education.

Practical design and performance solutions for every ad hoc wireless network Ad Hoc Wireless Networks comprise mobile devices that use wireless transmission for communication. They

can be set up anywhere and any time because they eliminate the complexities of infrastructure setup and central administration-and they have enormous commercial and military potential. Now, there's a book that addresses every major issue related to their design and performance. Ad Hoc Wireless Networks: Architectures and Protocols presents state-of-the-art techniques and solutions, and supports them with easy-to-understand examples. The book starts off with the fundamentals of wireless networking (wireless PANs, LANs, MANs, WANs, and wireless Internet) and goes on to address such current topics as Wi-Fi networks, optical wireless networks, and hybrid wireless architectures. Coverage includes: Medium access control, routing, multicasting, and transport protocols QoS provisioning, energy management, security, multihop pricing,

and much more In-depth discussion of wireless sensor networks and ultra wideband technology More than 200 examples and end-of-chapter problems Ad Hoc Wireless Networks is an invaluable resource for every network engineer, technical manager, and researcher designing or building ad hoc wireless networks.

Python for Software Design

Theory and Practice

Autobiographical Notes

14th International Conference, CRiSIS 2019, Hammamet, Tunisia, October 29–31, 2019, Proceedings

Next-Generation Networks

Microelectronics, Electromagnetics and Telecommunications

ICT Solutions for Improving Smart Communities in Asia

LPWAN Technologies for IoT and M2M Applications provides insight into LPWAN technologies, also presenting a wide range of applications and a discussion on security issues and future challenges and research directions. This book is a beneficial and insightful resource for university researchers, graduate students and R&D engineers who are designing networks and implementing IoT applications. To support new requirements for this

emerging industry, a new paradigm of Low Power Wide Area Networks (LPWAN) has recently evolved, including LoRa, Sigfox and NB-IoT, hence this book presents the latest updates.
The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in

five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific applications; high-performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 202 papers

presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality.

GSM, GPRS and EDGE Performance - Second Edition provides a complete overview of the entire GSM system. GSM (Global System for Mobile Communications) is the digital transmission technique

widely adopted in Europe and supported in North America. It features comprehensive descriptions of GSM's main evolutionary milestones – GPRS, (General Packet Radio Services) is a packet-based wireless communication service that promises data rates from 56 up to 114 Kbps and continuous connection to the Internet for mobile phone and computer users. AMR and EDGE (Enhanced Data GSM Environment), and such developments have now positioned

GERAN (GSM/EDGE Radio Access Network) as a full 3G radio standard. The radio network performance and capabilities of GSM, GPRS, AMR and EDGE solutions are studied in-depth by using revealing simulations and field trials. Cellular operators must now roll out new 3G technologies capable of delivering wireless Internet based multimedia services in a competitive and cost-effective way and this volume, divided into three parts, helps to explain how:

1. Provides an introduction to the complete evolution of GSM towards a radio access network that efficiently supports UMTS services (GERAN). 2. Features a comprehensive study of system performance with simulations and field trials. Covers all the major features such as basic GSM, GPRS, EDGE and AMR and the full capability of the GERAN radio interface for 3G service support is envisaged. 3. Discusses different 3G radio technologies and the

position of GERAN within such technologies. Featuring fully revised and updated chapters throughout, the second edition contains 90 pages of new material and features the following new sections, enabling this reference to remain as a leading text in the area: Expanded material on GPRS Includes IMS architecture (Rel'5) and GERAN (Rel'6) features Presents field trial results for AMR and narrowband Provides EGPRS deployment guidelines Features a new

chapter on Service Performance An invaluable reference for Engineering Professionals, Research and Development Engineers, Business Development Managers, Technical Managers and Technical Specialists working for cellular operators

It is also essential to study the success of technology use in some of the advanced nations in the Asian region that promote a smarter and well-advanced community. A smarter community

in these regions can only be materialized by adopting the latest trends in technology to improve quality of life. Some of these regions need a great emphasis on technology adoption for women empowerment and safety, promoting better health with telemedicine facilities, environment, and disaster prevention with IoT technologies, water treatment and sanitation, and addressing food scarcity issues with smarter precision

agriculture. Ultimately, there needs to be more research focused on a smarter and secured community in the Asian region in terms of cultural and socioeconomic factors and technology advancements. ICT Solutions for Improving Smart Communities in Asia explores new possibilities using digital solutions and technologies to create collaborative and smarter communities for advancement in agriculture, the health sector,

education centers, human resources, and administrative domains, as well as other areas to improve the overall living standards of people at the community level. This book will cover two main areas: the need for technology development in developing nations, mainly focusing on Asia, and the adoption of some of the advanced regions in Asia as role models for the less developed SAARC regions explicitly. This book is ideally

intended for researchers, academicians, IT specialists, regional developers, government officials, practitioners, academicians, and students.
Applications and Techniques in Information Security
Advances and Applications
Proceedings of ICICCT 2019
First International Conference, ADHOCNETS 2009, Niagara Falls, Ontario, Canada, September 22-25, 2009. Revised Selected Papers

Opportunistic Networks
Networking Communication and Data Knowledge Engineering
Computational Science and Its Applications -- ICCSA 2013

This book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It includes original research presented at the International Conference on Microelectronics, Electromagnetics and

Telecommunication (ICMEET 2019), organized by the Department of ECE, Raghu Institute of Technology, Andhra Pradesh, India. Written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes around the globe, the papers share the latest breakthroughs in and promising solutions to the most important issues facing today's society. Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners, whether students, professors,

or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and applications. Further, the book covers three helper modules: timers, random number generators, and error

models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide the details of scripting language Tcl, OTcl and AWK, as well object oriented programming used extensively in NS2.
The two volumes of this book collect high-quality peer-reviewed research papers presented in the International Conference on ICT for Sustainable Development (ICT4SD 2015) held at Ahmedabad, India during 3 – 4 July 2015. The book discusses all areas

of Information and Communication Technologies and its applications in field for engineering and management. The main focus of the volumes are on applications of ICT for Infrastructure, e-Governance, and contemporary technologies advancements on Data Mining, Security, Computer Graphics, etc. The objective of this International Conference is to provide an opportunity for the researchers, academicians, industry persons and students to interact and exchange ideas, experience and expertise in the current

trend and strategies for Information and Communication Technologies.
This book constitutes the refereed proceedings of the International Conference on Applications and Techniques in Information Security, ATIS 2016, held in Cairns, Australia, October 2016. The 10 revised full papers and three short papers presented together with two invited talks were carefully reviewed and selected from 38 submissions. The papers are organized in topical sections on invited speeches; attacks on data security systems;

detection of attacks on data security systems; data security; data privacy.
Proceedings of International Conference on Recent Advancement on Computer and Communication
Advances in Computer Science and Education Applications
HT THINK LIKE A COMPUTER SCIEN
Proceedings of International Conference on Communication and Networks
From Parallel Processing to the Internet of Things
ICT4SD 2015 Volume 1

Ad Hoc Networks

"Wireless Networks and Security" provides a broad coverage of wireless security issues including cryptographic coprocessors, encryption, authentication, key management, attacks and countermeasures, secure routing, secure medium access control, intrusion detection, epidemics, security performance analysis, security issues in applications. The contributions identify various vulnerabilities in the

physical layer, MAC layer, network layer, transport layer, and application layer, and focus on ways of strengthening security mechanisms and services throughout the layers. This carefully edited monograph is targeting for researchers, post-graduate students in universities, academics, and industry practitioners or professionals.

This book provides an overview of the current state of the art in wireless

networks around the globe, focusing on utilizing the latest artificial intelligence and soft computing techniques to provide design frameworks for wireless networks. These techniques play a vital role in developing a more robust algorithm suitable for the dynamic and heterogeneous environment, making the network self-managed, self-operational, and self-configurational, and efficiently reducing uncertainties and imprecise information.

This book is based on a series of conferences on Wireless Communications, Networking and Applications that have been held on December 27-28, 2014 in Shenzhen, China. The meetings themselves were a response to technological developments in the areas of wireless communications, networking and applications and facilitate researchers, engineers and students to share the latest research results and the advanced research methods of the

field. The broad variety of disciplines involved in this research and the differences in approaching the basic problems are probably typical of a developing field of interdisciplinary research. However, some main areas of research and development in the emerging areas of wireless communication technology can now be identified. The contributions to this book are mainly selected from the papers of the conference on wireless

communications, networking and applications and reflect the main areas of interest: Section 1 - Emerging Topics in Wireless and Mobile Computing and Communications; Section 2 - Internet of Things and Long Term Evolution Engineering; Section 3 - Resource Allocation and Interference Management; Section 4 - Communication Architecture, Algorithms, Modeling and Evaluation; Section 5 - Security, Privacy, and Trust; and Section 6 -

Routing, Position Management and Network Topologies.

The goal of this book is to teach you to think like a computer scientist. This way of thinking combines some of the best features of mathematics, engineering, and natural science. Like mathematicians, computer scientists use formal languages to denote ideas (specifically computations). Like engineers, they design things, assembling components into systems and

evaluating tradeoffs among alternatives. Like scientists, they observe the behavior of complex systems, form hypotheses, and test predictions. The single most important skill for a computer scientist is problem solving. Problem solving means the ability to formulate problems, think creatively about solutions, and express a solution clearly and accurately. As it turns out, the process of learning to program is an

excellent opportunity to practice problem-solving skills. That's why this chapter is called, The way of the program. On one level, you will be learning to program, a useful skill by itself. On another level, you will use programming as a means to an end. As we go along, that end will become clearer.

Mobility Models, Protocols, Security, and Privacy

MasteringConcurrencyinGo

Volume 4 - Advanced Intelligent Systems

for Applied Computing Sciences
Emerging Research in Electronics, Computer Science and Technology
Proceedings of CSI-2015
Introduction to Network Simulator NS2
Advanced Intelligent Systems for Sustainable Development (AI2SD'2019)

This textbook reviews the theory, applications, and latest breakthroughs in Delay Tolerant Networks (DTNs). Presenting a specific focus on Opportunistic Mobile Networks (OMNs), the text considers the influence of human aspects, and

examines emerging forms of inter-node cooperation. Features: contains review terms and exercises in each chapter, with the solutions and source code available at an associated website; introduces the fundamentals of DTNs, covering OMNs, PSNs, and MOONs; describes the ONE simulator, explaining how to set up a simulation project; provides detailed insights into the development and testing of protocols, together with a set of best practices for increased productivity and optimized performance; examines human aspects in the context of communication networks, from human-centric

applications to the impact of emotion on human-network interplay; proposes various schemes for inter-node cooperation in DTNs/OMNs; presents a detailed discussion on aspects of heterogeneity in DTNs.

Welcome to the proceedings of the 19th International Workshop on Power and TimingModeling, OptimizationandSimulation, PATMOS2009.Overtheyears, PATMOShasevolved intoanimportantEuropeanevent, whereresearchersfrom both industry and academia discuss and investigate the emerging challenges in future and contemporary

applications, design methodologies, and tools required for the development of the upcoming generations of integrated circuits and s- tems. PATMOS 2009 was organized by TU Delft, The Netherlands, with sp- sorship by the NIRICT Design Lab and Cadence Design Systems, and technical co-sponsorshipbytheIEEE.Furtherinfor mationabouttheworkshopisavailable athttp: //ens.ewi.tudelft.nl/patmos09. The technical programof PATMOS 2009 contained state-of-the-arttechnical contributions, three invited keynotes, and a special session on SystemC-AMS Extensions. The technical program focused on

timing, performance, and power consumption, as well as architectural aspects with particular emphasis on m- eling, design, characterization, analysis, and optimization in the nanometer era. The Technical Program Committee, with the assistance of additional expert reviewers, selected the 36 papers presented at PATMOS. The papers were - ganized into 7 oral sessions (with a total of 26 papers) and 2 poster sessions (with a total of 10 papers). As is customary for the PATMOS workshops, full papers were required for review, and a minimum of three reviews were received per manuscript.

This book constitutes the revised selected papers from the 14th International Conference on Risks and Security of Internet and Systems, CRiSIS 2019, held in Hammamet, Tunisia, in October 2019. The 20 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 64 submissions. They cover diverse research themes that range from classic topics, such as risk analysis and management; access control and permission; secure embedded systems; network and cloud security; information security policy; data protection and machine learning for security; distributed detection

system and blockchain.
Ad hoc networks refer to the wireless networking paradigm that covers a variety of network forms for specific purposes, such as mobile ad hoc networks, sensor n- works, vehicular networks, underwater networks, underground networks, personal area networks, and home networks. The various forms of ad hoc networks promise a broad scope of applications in civilian, commercial, and military areas, which have led to significant new research problems and challenges, and have attracted great efforts from academia, industry, and government. This unique

networking paradigm neces- tates re-examination of many established wireless networking concepts and protocols, and calls for developing new fundamental understanding of problems such as interf- ence, mobility, connectivity, capacity, and security, among others. While it is ess- tial to advance theoretical research on fundamentals and practical research on efficient algorithms and protocols, it is also critical to develop useful applications, experim-tal prototypes, and real-world deployments to achieve a practical impact on our so- ety for the success of this networking paradigm. The annual

International Conference on Ad Hoc Networks (AdHocNets) is a new event that aims at providing a forum to bring together researchers from academia as well as practitioners from industry and government to meet and exchange ideas and recent research work on all aspects of ad hoc networks. As the first edition of this event, AdHocNets 2009 was successfully held in Niagara Falls, Ontario, Canada, during September 22–25, 2009.

Evolution Towards 3G/UMTS

2016 Symposium on Colossal Data Analysis and Networking (CDAN)

GSM, GPRS and EDGE Performance
6th International Conference, ATIS 2016, Cairns, QLD, Australia, October 26-28, 2016, Proceedings
International Conference, CSE 2011, Qingdao, China, July 9-10, 2011, Proceedings
Proceedings of ICCASP 2018
Ad Hoc Wireless Networks

A one-stop resource for the use of algorithms and protocols in wireless sensor networks From an established international researcher in the field, this edited volume provides readers with comprehensive

coverage of the fundamental algorithms and protocols for wireless sensor networks. It identifies the research that needs to be conducted on a number of levels to design and assess the deployment of wireless sensor networks, and provides an in-depth analysis of the development of the next generation of heterogeneous wireless sensor networks. Divided into nineteen succinct chapters, the book covers: mobility management and resource allocation algorithms; communication models; energy and power consumption algorithms;

performance modeling and simulation; authentication and reputation mechanisms; algorithms for wireless sensor and mesh networks; and algorithm methods for pervasive and ubiquitous computing; among other topics. Complete with a set of challenging exercises, this book is a valuable resource for electrical engineers, computer engineers, network engineers, and computer science specialists. Useful for instructors and students alike, Algorithms and Protocols for Wireless Sensor Networks is an ideal textbook for advanced

undergraduate and graduate courses in computer science, electrical engineering,and network engineering.
In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology.

The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented – this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical

exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features: Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the

latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application

areas, including environmental monitoring, protection of civil infrastructure, health care, precision agriculture, traffic control, and homeland security.

The volume contains 75 papers presented at International Conference on Communication and Networks (COMNET 2015) held during February 19–20, 2016 at Ahmedabad Management Association (AMA), Ahmedabad, India and organized by Computer Society of India (CSI), Ahmedabad Chapter, Division IV and Association of Computing Machinery (ACM), Ahmedabad

Chapter. The book aims to provide a forum to researchers to propose theory and technology on the networks and services, share their experience in IT and telecommunications industries and to discuss future management solutions for communication systems, networks and services. It comprises of original contributions from researchers describing their original, unpublished, research contribution. The papers are mainly from 4 areas – Security, Management and Control, Protocol and Deployment, and Applications.

The topics covered in the book are newly emerging algorithms, communication systems, network standards, services, and applications.

This book comprises select proceedings of the 2015 annual conference of the Computer Society of India. The books focuses on next generation networks (NGN). An NGN is a packet-based network which can provide services including telecommunication services. NGNs make use of multiple broadband, quality-of-service-enabled transport technologies in which service-

related functions are independent from underlying transport-related technologies. This volume includes contributions from experts on various aspects of NGNs. The papers included cover theory, methodology and applications of ad-hoc networks, sensor networks, and the internet. The contents also delve into how the new enterprise IT landscape of cloud services, mobility, social media usage and big data analytics creates different types of network traffic to the traditional mix of in-house client-server enterprise workloads. The contents of this

book will be useful to researchers and professionals alike.
Internet of Things and Connected Technologies
Wireless Networks and Security
Proceedings of WCNA 2014
Volume 6 - Advanced Intelligent Systems for Networks and Systems
Wireless Communications, Networking and Applications
Proceedings of International Conference on ICT for Sustainable Development
ICCCS-2014

This book gathers papers presented at the second installment of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2019), which was held on July 08–11, 2019 in Marrakech, Morocco. It offers comprehensive coverage of recent advances in big data, data analytics and related paradigms. The book consists of fifty-two chapters, each of which shares the latest research in the fields of big data and data science, and describes use cases and applications of big data technologies in various domains, such as social networks and health care. All parts of the book discuss open research problems and potential opportunities that have arisen from the rapid advances in big data

technologies. In addition, the book surveys the state of the art in data science, and provides practical guidance on big data analytics and data science. Expert perspectives are provided by authoritative researchers and practitioners from around the world, who discuss research developments and emerging trends, present case studies on helpful frameworks and innovative methodologies, and suggest best practices for efficient and effective data analytics. Chiefly intended for researchers, IT professionals and graduate students, the book represents a timely contribution to the growing field of big data, which has been recognized as one of the leading emerging technologies that will have a major impact on various

fields of science and various aspects of human society over the next several decades. Therefore, the content in this book is an essential tool to help readers understand current developments, and provides them with an extensive overview of the field of big data analytics as it is practiced today. The chapters cover technical aspects of key areas that generate and use big data, such as management and finance, medicine and health care, networks, the Internet of Things, big data standards, benchmarking of systems, and others. In addition to a diverse range of applications, key algorithmic approaches such as graph partitioning, clustering and finite mixture modeling of high-dimensional data are also covered. The varied collection of topics

addressed introduces readers to the richness of the emerging field of big data analytics.

This book gathers selected papers presented at the Inventive Communication and Computational Technologies conference (ICICCT 2019), held on 29–30 April 2019 at Gnanamani College of Technology, Tamil Nadu, India. The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). Topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud Computing. The book is chiefly intended for academics and

practitioners working to resolve practical issues in this area.

This proceedings book presents extended versions of papers on advanced intelligent systems for networks and system selected from the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2019), which was held on 8–11 July 2019 in Marrakech, Morocco. The book explores a number of aspects of networks and systems design issues, and focuses on the latest research developments in a number of areas, including various aspects of modern networking such as smart networked systems, network protocols and performance, security and

privacy, mobile and wireless systems, Internet of things, artificial intelligence and expert systems, and cloud computing, as well as enabling technologies. The book also examines the area of intelligence, comprehensively examining a range of important topics like intelligent collaborative systems for work and learning, security, organization, management and autonomic computing for intelligent networking and collaborative systems, wireless and sensor systems for intelligent networking and collaborative systems, data mining and knowledge management for intelligent networking and collaborative systems, data for Internet of things, and cloud computing. Each chapter presents the state of the art in a specific topic

as well as the results of research and laboratory experiments, and successful applications. The book is intended for academic and industry researchers and telecommunication network engineers wanting to gain insights into these areas, particularly in the context of Industry 4.0.

PES College of Engineering is organizing an International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-12) in Mandya and merging the event with Golden Jubilee of the Institute. The Proceedings of the Conference presents high quality, peer reviewed articles from the field of Electronics, Computer Science and Technology. The book is a

compilation of research papers from the cutting-edge technologies and it is targeted towards the scientific community actively involved in research activities.
Integrated Circuit and System Design: Power and Timing Modeling, Optimization and Simulation
ICRAC 2017
Inventive Communication and Computational Technologies
Opportunistic Mobile Networks
Risks and Security of Internet and Systems
Proceedings of the Fifth ICMEET 2019
LPWAN Technologies for IoT and M2M Applications
Einstein's only autobiography outlining the

development of his scientific and philosophical ideas. Parallel English and German texts.
13th International Conference, ICCSA 2013, Ho Chi Minh City, Vietnam, June 24-27, 2013, Proceedings, Part V
4th International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2019
How to Think Like a Computer Scientist
Computing, Communication and Signal Processing
Integrated Circuit and System Design. Power and

Timing Modeling, Optimization, and Simulation