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Design of Efficient In-network Data Processing and Dissemination for Vehicular Ad Hoc Networks Energy Efficient Cooperative Wireless Communication and Networks Energy Efficient Digital Networks Energy Efficiency in Wireless Networks Service Efficient Network Interconnection Via Satellite Mobile Ad Hoc Networks Intelligent Pervasive Computing Systems for Smarter Healthcare Empowering Leadership of Tomorrow Energy Efficient Digital Networks and Data Centers Efficient and Adaptive Scanning in Mobile Wireless Body Area Network High Performance Browser Networking Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks Energy-Efficient Area Coverage for Intruder Detection in Sensor Networks System Support for Efficient Network Communication On Efficiency and Stability in Two-way Flow Network with Small Decay Energy-Efficient Underwater Wireless Communications and Networking Energy-Efficient Wireless Sensor Networks An Efficient Network Generation Method Spectrum Sharing in Wireless Networks Complex Sciences Energy Efficient Design of Wireless Sensor Networks An Efficient Algorithm for the Symbolic Solution of Network Reliability Efficient Data Management and Policy Composition for Software-defined Networking Energy-Efficient Wireless Sensor Networks Interorganizational Effectiveness, Efficiency and Network Structure Green Communications and Networking Efficient Network Coverage for Wireless Sensor Networks Energy Management in Wireless Cellular and Ad-hoc Networks Green, Energy-Efficient and Sustainable Networks Crosstalk-aware Error Control Coding Techniques for Reliable and Energy

Efficient Network on Chip Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management Scalable, Efficient, and Fault-tolerant Data Center Networking Efficient Processing of Deep Neural Networks Greening Video Distribution Networks Mathematical Optimization for Efficient and Robust Energy Networks Designing an Efficient Protection System for a Communications Network Energy-efficient Low-power Rack-scale Optical Network Green Computing in Network Security Energy and Spectrum Efficient Wireless Network Design Network Efficiency in Peer-to-peer Data Distribution

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. This book shows how Empowering Leadership (EL) can drive success in business and have an immense social impact. Green Communications and Networking introduces novel solutions that can bring about significant reductions in

energy consumption in the information and communication technology (ICT) industry—as well as other industries, including electric power. Containing the contributions of leading experts in the field, it examines the latest research advances. Digital networks are the foundation of the information services, and play an expanding and indispensable role in our lives, via the Internet, email, mobile phones, etc. However, these networks consume energy, both through the direct energy use of the network interfaces and equipment that comprise the network, and in the effect they have on the operating patterns of devices connected to the network. The purpose of this research was to investigate a variety of technology and policy issues related to the energy use caused by digital networks, and to further develop several energy-efficiency technologies targeted at networks. This book provides a structured treatment of the key principles and techniques for enabling efficient processing of deep neural networks (DNNs). DNNs are currently widely used for many artificial intelligence (AI) applications, including computer vision, speech recognition, and robotics. While DNNs deliver state-of-the-art accuracy on many AI tasks, it comes at the cost of high computational complexity. Therefore, techniques that enable efficient processing of deep neural networks to improve metrics—such as energy-efficiency, throughput, and latency—without sacrificing accuracy or increasing hardware costs are critical to enabling the wide deployment of DNNs in AI systems. The book includes background on DNN processing; a description and taxonomy of hardware architectural approaches for designing DNN accelerators; key metrics for evaluating and comparing different designs; features of the DNN processing that are amenable to hardware/algorithm co-design to improve energy efficiency and throughput; and opportunities for applying new technologies. Readers will find a structured introduction to the field as well as a formalization and

organization of key concepts from contemporary works that provides insights that may spark new ideas. We describe a model of networks that is both useful as a descriptive model for how interpersonal networks form, and as a tool for agent-based simulations that require artificially generated networks. It uses a latent space technique, but simplifies the standard computation using a principal component analysis, with no perceptible loss in fit. We test the method using friend networks in a sample of junior high school classrooms. "This book focuses on wireless sensor networks and their operation, covering topics including routing, energy efficiency and management"-- This book introduces the technical foundations and tools for estimating the power consumption of internet networks and services, including a detailed description of how these models are constructed and applied. Modeling the Power Consumption and Energy Efficiency of Telecommunications Networks can be used to gain insight into the construction of mathematical models that provide realistic estimates of the power consumption of internet networks and services. This knowledge enables forecasting the energy footprint of future networks and services to integrate sustainability and environmental considerations into network planning and design. FEATURES Provides the motivation for developing mathematical models for telecommunications network and service power consumption and energy efficiency modeling Presents factors impacting overall network and service power consumption Discusses the types of network equipment and their power consumption profiles Reviews the basics of power modeling, including network segmentation, traffic forecasting, top-down and bottom-up models, wired and wireless networks, data centers and servers Explores the application of energy efficiency metrics for equipment, networks, and services This book is aimed at students and technologists as well as technology managers and policy

makers. This book will be of value to any organization that wishes to estimate the energy footprint of the use of information and communications technologies. This book can also be integrated into a course on the sustainability of information and communications technologies. This insightful text presents a guide to video distribution networks (VDNs), providing illuminating perspectives on reducing power consumption in IP-based video networks from an authoritative selection of experts in the field. A particular focus is provided on aspects of architectures, models, Internet protocol television (IPTV), over-the-top (OTT) video content, video on demand (VoD) encoding and decoding, mobile terminals, wireless multimedia sensor networks (WMSNs), software defined networking (SDN), and techno-economic issues. Topics and features: reviews the fundamentals of video over IP distribution systems, and the trade-offs between network/service performance and energy efficiency in VDNs; describes the characterization of the main elements in a video distribution chain, and techniques to decrease energy consumption in software-based VoD encoding; introduces an approach to reduce power consumption in mobile terminals during video playback, and in data center networks using the SDN paradigm; discusses the strengths and limitations of different methods for measuring the energy consumption of mobile devices; proposes optimization methods to improve the energy efficiency of WMSNs, and a routing algorithm that reduces energy consumption while maintaining the bandwidth; presents an economic analysis of the savings yielded by approaches to minimize energy consumption of IPTV and OTT video content services. The broad coverage and practical insights offered in this timely volume will be of great value to all researchers, practitioners and students involved with computer and telecommunication systems. Thus, by improving the efficiency and reliability in in-network data

processing and dissemination, including message aggregation, data dissemination and data collection, together with the development of novel promising applications, this dissertation will help push VANETs further to the stage of massive deployment. An efficient algorithm for the analysis of unreliable networks is presented. The efficiency of the algorithm is estimated to be four to eleven times as great as that of the most efficient algorithm previously reported. The algorithm herein simultaneously solves for the symbolic expression of both terminal reliability and unreliability. These expressions may subsequently be numerically evaluated for any desired set of node probabilities. The dual to the algorithm is proposed as a means for achieving tighter upper bounds on the solutions for networks in which it is not practical to run the algorithm to termination. (Author). I was invited to join the Organizing Committee of the First International Conference on Complex Sciences: Theory and Applications (Complex 2009) as its ninth member. At that moment, eight distinguished colleagues, General Co-chairs Eugene Stanley and Gaoxi Xiao, Technical Co-chairs János Kertész and Bing-Hong Wang, Local Co-chairs Hengshan Wang and Hong-An Che, Publicity Team Shi Xiao and Yubo Wang, had spent hundreds of hours pushing the conference half way to its birth. Ever since then, I have been amazed to see hundreds of papers flooding in, reviewed and commented on by the TPC members. Finally, more than 200 contributions were - lected for the proceedings currently in your hands. They include about 200 papers from the main conference (selected from more than 320 submissions) and about 33 papers from the five collated workshops: Complexity Theory of Art and Music (COART) Causality in Complex Systems (ComplexCCS) Complex Engineering Networks (ComplexEN) Modeling and Analysis of Human Dynamics (MANDYN) Social Physics and its Applications (SPA) Complex sciences are

expanding their colonies at such a dazzling speed that it - comes literally impossible for any conference to cover all the frontiers. Network softwarization changes the way how should networks be managed. Introducing Software-defined Networking in the last decade helps network administrators focus on network management and write optimized applications that control network behavior. Network administrators communicate with a network controller through an interface named northbound interface. This interface and any abstract build on it should be designed to enforce the ease of the network management to align with the primary purpose of Software-defined Networking. The performance of these abstractions is affected by the data... The advances in low-power electronic devices integrated with wireless communication capabilities are one of recent areas of research in the field of Wireless Sensor Networks (WSNs). One of the major challenges in WSNs is uniform and least energy dissipation while increasing the lifetime of the network. This is the first book that introduces the energy efficient wireless sensor network techniques and protocols. The text covers the theoretical as well as the practical requirements to conduct and trigger new experiments and project ideas. The advanced techniques will help in industrial problem solving for energy-hungry wireless sensor network applications. Energy Efficient Design of Wireless Sensor Networks explores how to optimize energy supply in wireless sensor networks (WSNs), which is more complex than in conventional wired networks because it involves not only reducing the energy consumption of a single sensor node, but also maximizing the lifetime of an entire network. The book focuses on mobile wireless sensor networks characterized by poor connectivity, examining ways to exploit the mobility of nodes to optimize their energy consumption and maximize the lifetime of the entire network on two main levels, the neighbor's discovery phase and data

transfer methods. Focuses exclusively on mobile sensor networks Exploits mobile WSN specificities to conserve the maximum energy initially deployed on sensors to extend the lifetime of the whole network Offers a new paradigm of conservation and energy optimization techniques in two levels, the neighbor discovery phase and data routing method Examines the idea of how to exploit the mobility of nodes to optimize their energy consumption

A Local Area Network (LAN) is a network usually within a single office or building that links desktop computers with each other and with peripherals such as servers and printers. The interconnect is the electrical and functional association of two different services, often provided by different suppliers, and it is from LAN inter-connection that telecoms operators seek to profit. The application of LAN interconnection via satellite can be used to complement and extend existing terrestrial public access networks through interconnection of clusters of broadband islands (such as LANs and MANs) in remote regions, where terrestrial lines are expensive to install and operate. Examples include: * Hospitals/clinics in remote and rural areas can be connected to the central hospitals in a tele-medicine environment * Remote offices can be connected to the central office to facilitate tele-working * University/colleges can be inter-connected to provide tele-education facilities Similarly, the possibility to provide access to such facilities in developing regions of the world is also viable and particularly attractive in the short to mid-term. Private LAN connection facilities could also be made available to the corporate user, offering the possibility to establish broadband internet access within a closed user group. Such a scenario could be of interest to the financial sector. By gathering the knowledge and experiences of well-known satellite systems experts from different parts of Europe this comprehensive volume provides detailed analysis on technical

aspects for interconnecting local area network using satellite. Starting from traffic source modelling for different types of applications and services to different types of transmission techniques and networking functions for supporting such services, different case studies are presented to analyse the performance of such technologies. By providing an insight to current and future developments in satellite communications systems and by covering a broad range of materials in technical aspects in relation to satellite communication systems technologies, this volume will be of tremendous use to researchers, academia and industry. * First book to present such a thorough description of the reliability functions of satellite systems * Discusses IP over satellite * Provides a unique analysis and description of different simulation tools that are under development for evaluating the performance of satellite systems * Includes a chapter devoted to traffic modelling for satellite systems * Reviews current research and developments in security and discusses how such security functions can be implemented over satellite networks * Addresses different types of routing strategies and includes three different case studies which have been carried out to analyse the performance of different routing strategies Most literature in strategic network formation shows that there is a substantial tension between stability and efficiency. In this note, I show that such is not the case in the twoway flow model with small decay studied by Bala and Goyal (2000a) and De Jaegher and Kamphorst (2015). Specifically, I show that every link receiver in a Nash network serves as an efficient trans-mitter of information. I also generalize this result to the case of player hetero-geneity and then provide a fine-detail characterization of efficient networks. This book focuses on green computing-based network security techniques and addresses the challenges involved in practical implementation. It also explores the idea of energy-efficient

computing for network and data security and covers the security threats involved in social networks, data centers, IoT, and biomedical applications. *Green Computing in Network Security: Energy Efficient Solutions for Business and Home* includes analysis of green-security mechanisms and explores the role of green computing for secured modern internet applications. It discusses green computing-based distributed learning approaches for security and emphasizes the development of green computing-based security systems for IoT devices. Written with researchers, academic libraries, and professionals in mind so they can get up to speed on network security, the challenges, and implementation processes. The advent of cloud computing and the expectation of anytime availability of user data and services have brought data center design to the forefront of computer science research. Modern data centers can be massive in size, consisting of hundreds of thousands of servers and millions of virtualized end hosts. At this scale and complexity, the underlying network becomes central to data center scalability, efficiency, availability and fault tolerance. Given the scale of today's data center networks, operators typically turn to symmetric, highly structured network topologies, sacrificing flexibility for relative simplicity. These topologies tend to have an "all or nothing" tradeoff between fault tolerance and scalability. Over these topologies, data center operators often run protocols borrowed from the Internet, an environment that is drastically different from that of the data center. Because these protocols have not been built for the data center, they can operate and interact in unexpected and undesirable ways. Moreover, they are generally vetted by virtue of having survived in the Internet, rather than by formal reasoning. This makes the management burden associated with configuration, maintenance and error diagnosis for these protocols substantial, leading to compromised efficiency and

availability. The first contribution of this dissertation is the introduction of a new class of network topologies called Aspen trees. Aspen trees provide the high throughput and path multiplicity of current data center network topologies while also allowing a network operator to select a particular point on the scalability versus fault tolerance spectrum. This addresses the challenge of supporting simultaneous scalability and fault tolerance in data center networks. Next, the challenge of providing scalable and efficient communication is addressed with the design of ALIAS, a protocol for scalable, automatic and decentralized addressing and communication in the data center. Finally, this dissertation presents a formalization and proof of correctness of the fundamental building block of ALIAS, thus enabling feasible configuration and maintenance of ALIAS in the data center. This combination of tunable topology structure and tailored communication protocols enables scalable, efficient and fault-tolerant data center communication. "This book covers existing and future possibilities of the area as well as the current challenges presented in the implementation of underwater sensor networks"-- A guide to intelligent decision and pervasive computing paradigms for healthcare analytics systems with a focus on the use of bio-sensors Intelligent Pervasive Computing Systems for Smarter Healthcare describes the innovations in healthcare made possible by computing through bio-sensors. The pervasive computing paradigm offers tremendous advantages in diversified areas of healthcare research and technology. The authors—noted experts in the field—provide the state-of-the-art intelligence paradigm that enables optimization of medical assessment for a healthy, authentic, safer, and more productive environment. Today's computers are integrated through bio-sensors and generate a huge amount of information that can enhance our ability to process enormous bio-informatics data that can be

transformed into meaningful medical knowledge and help with diagnosis, monitoring and tracking health issues, clinical decision making, early detection of infectious disease prevention, and rapid analysis of health hazards. The text examines a wealth of topics such as the design and development of pervasive healthcare technologies, data modeling and information management, wearable biosensors and their systems, and more. This important resource:

- Explores the recent trends and developments in computing through bio-sensors and its technological applications*
- Contains a review of biosensors and sensor systems and networks for mobile health monitoring*
- Offers an opportunity for readers to examine the concepts and future outlook of intelligence on healthcare systems incorporating biosensor applications*
- Includes information on privacy and security issues on wireless body area network for remote healthcare monitoring*

Written for scientists and application developers and professionals in related fields, Intelligent Pervasive Computing Systems for Smarter Healthcare is a guide to the most recent developments in intelligent computer systems that are applicable to the healthcare industry. This book investigates energy management approaches for energy efficient or energy-centric system design and architecture and presents end-to-end energy management in the recent heterogeneous-type wireless network medium. It also considers energy management in wireless sensor and mesh networks by exploiting energy efficient transmission techniques and protocols. and explores energy management in emerging applications, services and engineering to be facilitated with 5G networks such as WBANs, VANETS and Cognitive networks. A special focus of the book is on the examination of the energy management practices in emerging wireless cellular and ad hoc networks. Considering the broad scope of energy management in wireless cellular

and ad hoc networks, this book is organized into six sections covering range of Energy efficient systems and architectures; Energy efficient transmission and techniques; Energy efficient applications and services. This Springer Brief presents recent research results on area coverage for intruder detection from an energy-efficient perspective. These results cover a variety of topics, including environmental surveillance and security monitoring. The authors also provide the background and range of applications for area coverage and elaborate on system models such as the formal definition of area coverage and sensing models. Several chapters focus on energy-efficient intruder detection and intruder trapping under the well-known binary sensing model, along with intruder trapping under the probabilistic sensing model. The brief illustrates efficient algorithms rotate the duty of each sensor to prolong the network lifetime and ensure intruder trapping performance. The brief concludes with future directions of the field. Designed for researchers and professionals working with wireless sensor networks, the brief also provides a wide range of applications which are also valuable for advanced-level students interested in efficiency and networking. This book presents the Time Reservation using Adaptive Control for Energy Efficiency (TRACE) family of protocol architectures that provide such dynamic coordinated channel access in a distributed manner, enabling energy-efficient, real-time data communications in MANETs. Furthermore, this book provides an introduction to the fundamentals of MANETs, an overview of protocols for each layer of the protocol stack, and a discussion of the issues involved with energy-efficient protocol design and quality of service for real-time data transmission. Spectrum Sharing in Wireless Networks: Fairness, Efficiency, and Security provides a broad overview of wireless network spectrum sharing in seven distinct sections: The first section examines the big picture and basic principles, explaining the

concepts of spectrum sharing, hardware/software function requirements for efficient sharing, and future trends of sharing strategies. The second section contains more than 10 chapters that discuss differing approaches to efficient spectrum sharing. The authors introduce a new coexistence and sharing scheme for multi-hop networks, describe the space-time sharing concept, introduce LTE-U, and examine sharing in broadcast and unicast environments. They then talk about different cooperation strategies to achieve mutual benefits for primary users (PU) and secondary users (SU), discuss protocols in a spectrum sharing context, and provide different game theory models between PUs and SUs. The third section explains how to model the interactions of PUs and SUs, using an efficient calculation method to determine spectrum availability. Additionally, this section explains how to use scheduling models to achieve efficient SU traffic delivery. The subject of the fourth section is MIMO-oriented design. It focuses on how directional antennas and MIMO antennas greatly enhance wireless network performance. The authors include a few chapters on capacity/rate calculations as well as beamforming issues under MIMO antennas. Power control is covered in the fifth section which also describes the interference-aware power allocation schemes among cognitive radio users and the power control schemes in cognitive radios. The sixth section provides a comprehensive look at security issues, including different types of spectrum sharing attacks and threats as well as corresponding countermeasure schemes. The seventh and final section covers issues pertaining to military applications and examines how the military task protects its data flows when sharing the spectrum with civilian applications. In order to increase efficiency and adaptability when scanning within a body area network, a technique known as Efficient and Adaptive Scanning in Mobile Wireless Body Area Network was

developed. Provides the fundamental principles and practical tools needed to design next-generation wireless networks that are both energy- and spectrum-efficient. Data distribution applications transfer data files on computer networks. On these networks, peer-to-peer applications transfer bulk data quickly to many destinations. But existing applications increase network costs on the Internet and underuse network capacity on the data center network. To address these network inefficiencies, this thesis introduces two applications. First, it proposes an Internet application that decreases the costly traffic of peer-to-peer applications while maintaining their download times. This approach is novel because it works without changing existing peer-to-peer applications on the Internet. Second, after identifying the problem with existing applications in data centers, this thesis proposes a peer-to-peer application that increases its usage of the network capacity and maintains the speed of other applications. This approach is novel because it is more resilient than similar peer-to-peer applications on the data center network. This book presents a collection of energy production and distribution problems identified by the members of the COST Action TD1207 "Mathematical Optimization in the Decision Support Systems for Efficient and Robust Energy Networks". The aim of the COST Action was to coordinate the efforts of the experts in different fields, from academia and industry, in developing innovative tools for quantitative decision making, and apply them to the efficient and robust design and management of energy networks. The work covers three main goals: • to be a nimble while comprehensive resource of several real life business problems with a categorized set of pointers to many relevant prescriptive problems for energy systems; • to offer a balanced mix of scientific and industrial views; • to evolve over time in a flexible and dynamic way giving, from time to time, a more scientific or industrial - or

even political in a broad sense - weighed perspective. It is addressed to researchers and professionals working in the field. The advances in low-power electronic devices integrated with wireless communication capabilities are one of recent areas of research in the field of Wireless Sensor Networks (WSNs). One of the major challenges in WSNs is uniform and least energy dissipation while increasing the lifetime of the network. This is the first book that introduces the energy efficient wireless sensor network techniques and protocols. The text covers the theoretical as well as the practical requirements to conduct and trigger new experiments and project ideas. The advanced techniques will help in industrial problem solving for energy-hungry wireless sensor network applications. How prepared are you to build fast and efficient web applications? This eloquent book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols, and explains unique wireless and mobile network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side network scripting with XHR, real-time streaming with SSE and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance Speed up network performance over 3G/4G mobile networks Develop fast and energy-efficient mobile applications Address bottlenecks in HTTP 1.x and other browser protocols Plan for and deliver the best HTTP 2.0 performance Enable efficient real-time streaming in the browser Create efficient peer-to-peer videoconferencing and

low-latency applications with real-time WebRTC transports. Compared with conventional communications, cooperative communication allows multiple users in a wireless network to coordinate their packet transmissions and share each other's resources, thus achieving high-performance gain and better service coverage and reliability. *Energy Efficient Cooperative Wireless Communication and Networks* provides a comprehensive look at energy efficiency and system design of cooperative wireless communication. Introducing effective cooperative wireless communication schemes, the book supplies the understanding and methods required to improve energy efficiency, reliability, and end-to-end protocol designs for wireless communication systems. It explains the practical benefits and limitations of cooperative transmissions along with the associated designs of upper-layer protocols, including MAC, routing, and transport protocol. The book considers power efficiency as a main objective in cooperative communication to ensure quality-of-service (QoS) requirements. It explains how to bring the performance gain at the physical layer up to the network layer and how to allocate network resources dynamically through MAC/scheduling and routing to trade off the performance benefits of given transmissions against network costs. Because the techniques detailed in each chapter can help readers achieve energy efficiency and reliability in wireless networks, they have the potential to impact a range of industry areas, including wireless communication, wireless sensor networks, and ad hoc networks. The book includes numerous examples, best practices, and models that capture key issues in real-world applications. Along with algorithms and tips for effective design, the book supplies the understanding you will need to achieve high-performing and energy efficient wireless networks with improved service coverage and reliability. The last decade has witnessed an

unprecedented development and growth in global wireless communications systems, technologies and network “traffic” generated over network infrastructures. This book presents state-of-the-art energy-efficient techniques, designs and implementations that pertain to wireless communication networks such as cellular networks, wireless local area networks (WLANs) and wireless ad hoc networks (WAHNs) including mobile ad hoc networks (MANETs), and wireless sensor networks (WSNs) as they are deployed across the world to facilitate “always on” reliable high-speed wireless access from anywhere, at anytime to accommodate the new paradigm of the “Internet of Things” (IoT). The pervasive and exponential growth of Wi-Fi and the impact of bandwidth-intensive applications on the energy consumption of Wi-Fi-enabled devices are discussed along with energy harvesting as an advantageous option to power WAHNs. The book aims to serve as a useful reference for researchers, students, regulatory authorities, and educators. The book Green, Energy-Efficient and Sustainable Networks provides insights and solutions for a range of problems in the field of obtaining greener, energy-efficient, and sustainable networks. The book contains the outcomes of the Special Issue on “Green, Energy-Efficient and Sustainable Networks” of the Sensors journal. Seventeen high-quality papers published in the Special Issue have been collected and reproduced in this book, demonstrating significant achievements in the field. Among the published papers, one paper is an editorial and one is a review, while the remaining 15 works are research articles. The published papers are self-contained peer-reviewed scientific works that are authored by more than 75 different contributors with both academic and industry backgrounds. The editorial paper gives an introduction to the problem of information and communication technology (ICT) energy consumption and greenhouse gas emissions, presenting the

state of the art and future trends in terms of improving the energy-efficiency of wireless networks and data centers, as the major energy consumers in the ICT sector. In addition, the published articles aim to improve energy efficiency in the fields of software-defined networking, Internet of things, machine learning, authentication, energy harvesting, wireless relay systems, routing metrics, wireless sensor networks, device-to-device communications, heterogeneous wireless networks, and image sensing. The last paper is a review that gives a detailed overview of energy-efficiency improvements and methods for the implementation of fifth-generation networks and beyond. This book can serve as a source of information in industrial, teaching, and/or research and development activities. The book is a valuable source of information, since it presents recent advances in different fields related to greening and improving the energy-efficiency and sustainability of those ICTs particularly addressed in this book

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