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Sustainable Wireless Networks



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Sustainable Wireless Networks Springerbriefs In Computer Science

**Namita Gupta,Prasenjit
Chatterjee,Tanupriya Choudhury**



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Sustainable Wireless Networks Zhongming Zheng, Lin X. Cai, Xuemin Shen, 2013-10-07 This brief focuses on network planning and resource allocation by jointly considering cost and energy sustainability in wireless networks with sustainable energy The characteristics of green energy and investigating existing energy efficient green approaches for wireless networks with sustainable energy is covered in the first part of this brief The book then addresses the random availability and capacity of the energy supply The authors explore how to maximize the energy sustainability of the network and minimize the failure probability that the mesh access points APs could deplete their energy and put the network out of service due to the unreliable energy supply This brief also studies network resource management issues in green wireless networks to minimize cost It jointly considers the relay node RN placement and sub carrier allocation RNP SA issues in wireless networks with sustainable energy and then formulates the problem into a mixed integer non linear programming problem Concise and informative this brief is a useful resource for professionals or researchers studying wireless networks communication networks and energy efficiency Advanced level students interested in energy technology or communications engineering will also find the material valuable

Smart and Sustainable Intelligent Systems Namita Gupta, Prasenjit Chatterjee, Tanupriya Choudhury, 2021-03-08 The world is experiencing an unprecedented period of change and growth through all the electronic and technological developments and everyone on the planet has been impacted What was once science fiction today it is a reality This book explores the world of many of once unthinkable advancements by explaining current technologies in great detail Each chapter focuses on a different aspect Machine Vision Pattern Analysis and Image Processing Advanced Trends in Computational Intelligence and Data Analytics Futuristic Communication Technologies Disruptive Technologies for Future Sustainability The chapters include the list of topics that spans all the areas of smart intelligent systems and computing such as Data Mining with Soft Computing Evolutionary Computing Quantum Computing Expert Systems Next Generation Communication Blockchain and Trust Management Intelligent Biometrics Multi Valued Logical Systems Cloud Computing and security etc An extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him/her

Securing Unmanned Aerial Vehicle Networks Bin Duo, Xiaojun Yuan, Yifan Liu, 2023-11-20 This book focuses on the model and algorithm aspects of securing Unmanned Aerial Vehicle Networks UAV To equip readers with the essential knowledge required for conducting research in this field it covers the foundational concepts of this topic as well This book also offers a detailed insight into UAV networks from the physical layer security point of view The authors discuss the appropriate channel models for characterizing various propagation environments that UAV networks are exposed The state of the art technologies such as UAV trajectory design cooperative jamming and reconfigurable intelligent surfaces are covered The corresponding algorithms for significantly improving the security of UAV networks along with practical case studies on topics such as energy efficient and secure UAV

networks elevation angle distance trade off for securing UAV networks and securing UAV networks with the aid of reconfigurable intelligent surfaces are presented as well Last this book outlines the future challenges and research directions to facilitate further studies on secure UAV networks This book is suitable reading for graduate students and researchers who are interested in the research areas of UAV networking and communications IoT security and physical layer security in wireless networks Professionals working within these related fields will also benefit from this book Industry 4.0 Value Roadmap Tuğrul U. Daim,Zahra Faili,2019-10-22 Industry 4 0 has altered as well as disrupted the business model of organizations around the world The adoption however has been slow in the various industries as a clear roadmap for the integration of the same lacks in project planning This brief fills this gap as it examines the development of a Value Roadmap for different industries using Industry 4 0 as an enabler Using the automotive healthcare and telecommunication industries as case studies the authors create the value roadmap using five factors market drivers product features technology features enablers and resources This framework integrates both technology and market knowledge to support strategy development innovation and operational processes in organizations **Sustainable Communication Networks and Application P.** Karuppusamy,Isidoros Perikos,Fuqian Shi,Tu N. Nguyen,2021-01-25 This book includes novel and state of the art research discussions that articulate and report all research aspects including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications In recent years sustainability and information and communication technologies ICT are highly intertwined where sustainability resources and its management has attracted various researchers stakeholders and industrialists The energy efficient communication technologies have revolutionized the various smart applications like smart cities healthcare entertainment and business The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy efficient mobile and wireless communication network It includes best selected high quality conference papers in different fields such as internet of things cloud computing data mining artificial intelligence machine learning autonomous systems deep learning neural networks renewable energy sources sustainable wireless communication networks QoS network sustainability and many other related areas Wireless Virtualization Heming Wen,Prabhat Kumar Tiwary,Tho Le-Ngoc,2013-08-28 This SpringerBriefs is an overview of the emerging field of wireless access and mobile network virtualization It provides a clear and relevant picture of the current virtualization trends in wireless technologies by summarizing and comparing different architectures techniques and technologies applicable to a future virtualized wireless network infrastructure The readers are exposed to a short walkthrough of the future Internet initiative and network virtualization technologies in order to understand the potential role of wireless virtualization in the broader context of next generation ubiquitous networks Three main wireless virtualization perspectives are explored along with the potential challenges and requirements of a sustainable wireless virtualization framework Finally it presents an example of a multi

perspective wireless virtualization framework The readers learn the latest concepts in the application of wireless virtualization as well as its relationship with cutting edge wireless technologies such as software defined radio SDR and cognitive radio *Transportation and Information* Piyushimita (Vonu) Thakuriah,D. Glenn Geers,2013-06-18

Transformations in wireless connectivity and location aware technologies hold the promise of bringing a sea change in the way transportation information is generated and used in the future Sensors in the transportation system when integrated with those in other sectors for example energy utility and health have the potential to foster novel new ways of improving livability and sustainability The end result of these developments has been somewhat contradictory Although automation in the transportation environment has become increasingly widespread the level of involvement and active participation by people in terms of co creation and contribution of information has also increased As a result the following two major trends have been observed 1 increases in Machine to Machine M2M communications and 2 increases in the variety and volume of User Generated Content In this transportation paradigm the pervasive use of Information and Communication Technologies will serve as the foundation for mobility intelligence towards an ubiquitous information centered mobility environment However many technical and operational questions as well as social management and legal challenges present themselves in the transformation to this vision The book presents a non technical review of research and initiatives and a discussion of such opportunities and challenges

Seamless and Secure Communications over Heterogeneous Wireless Networks

Jiannong Cao,Chisheng Zhang,2014-01-30 This brief provides an overview of the requirements challenges design issues and major techniques for seamless and secure communications over heterogeneous wireless networks It summarizes and provides detailed insights into the latest research on handoff management mobility management fast authentication and security management to support seamless and secure roaming for mobile clients The reader will also learn about the challenges in developing relevant technologies and providing ubiquitous Internet access over heterogeneous wireless networks The authors have extensive experience in implementing such technologies over heterogeneous wireless networks thus enabling them to bridge the gap between the theoretical results of research and the real practice Combining basic theoretical concepts and practical implementation this brief is ideal for professionals and researchers in the field Advanced level students interested in computer communication networks and wireless technologies will also find the content helpful

Sustainable Wireless Communications Jianping An,Kai Yang,Xiaozheng Gao,Neng Ye,2022-06-06 This book discusses the architecture of future wireless networks reliable communications between different nodes and energy efficient resource allocations for achieving sustainable wireless communications To meet the increasing demands of wireless communication networks and achieve sustainable wireless communications various promising technologies in this book have been investigated and developed This book is to present cutting edge research results on achieving sustainable wireless communications In particular the sustainable ultra dense heterogeneous networks and the sustainability issues of non

orthogonal multiple access are investigated the performances of cooperative networks with space time network coding under different scenarios are evaluated the dynamic estimation for a unified laser telemetry tracking and command system is discussed and the energy efficient resource allocation schemes are developed for future wireless communication networks We believe that the results in this book can provide useful insights for the design of future wireless communication networks and achieving sustainable wireless communications Graduate students researchers and engineers in the field of wireless communications can benefit from the book

Sustainable Wireless Network-on-Chip Architectures Jacob Murray,Paul Wettin,Partha Pratim Pande,Behrooz Shirazi,2016-03-25 Sustainable Wireless Network on Chip Architectures focuses on developing novel Dynamic Thermal Management DTM and Dynamic Voltage and Frequency Scaling DVFS algorithms that exploit the advantages inherent in WiNoC architectures The methodologies proposed combined with extensive experimental validation collectively represent efforts to create a sustainable NoC architecture for future many core chips Current research trends show a necessary paradigm shift towards green and sustainable computing As implementing massively parallel energy efficient CPUs and reducing resource consumption become standard and their speed and power continuously increase energy issues become a significant concern The need for promoting research in sustainable computing is imperative As hundreds of cores are integrated in a single chip designing effective packages for dissipating maximum heat is infeasible Moreover technology scaling is pushing the limits of affordable cooling thereby requiring suitable design techniques to reduce peak temperatures Addressing thermal concerns at different design stages is critical to the success of future generation systems DTM and DVFS appear as solutions to avoid high spatial and temporal temperature variations among NoC components and thereby mitigate local network hotspots Defines new complex sustainable network on chip architectures to reduce network latency and energy Develops topology agnostic dynamic thermal management and dynamic voltage and frequency scaling techniques Describes joint strategies for network and core level sustainability Discusses novel algorithms that exploit the advantages inherent in Wireless Network on Chip architectures

Sustainable Communication Networks and Application P. Karrupusamy,Valentina Emilia Balas,Yong Shi,2022-01-17 This book includes high quality research papers presented at 3rd International Conference on Sustainable Communication Networks and Applications ICSCN 2021 which is held at Surya Engineering College SEC Erode India during 29 30 July 2021 This book includes novel and state of the art research discussions that articulate and report all research aspects including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy efficient mobile and wireless communication network It includes best selected high quality conference papers in different fields such as Internet of Things cloud computing data mining artificial intelligence machine learning autonomous systems deep learning neural networks renewable energy sources sustainable wireless communication networks QoS

network sustainability and many other related areas

Sustainable Communication Networks and Application P. Karrupusamy, Joy Chen, Yong Shi, 2019-11-07 This book presents state of the art theories and technologies and discusses developments in the two major fields engineering and sustainable computing In this modern era of information and communication technologies ICT there is a growing need for new sustainable and energy efficient communication and networking technologies The book highlights significant current and potential international research relating to theoretical and practical methods toward developing sustainable communication and networking technologies In particular it focuses on emerging technologies such as wireless communications mobile networks Internet of things IoT sustainability and edge network models The contributions cover a number of key research issues in software defined networks blockchain technologies big data edge fog computing computer vision sentiment analysis cryptography energy efficient systems and cognitive platforms

Design Frameworks for Wireless Networks Santosh Kumar Das, Sourav Samanta, Nilanjan Dey, Rajesh Kumar, 2019-08-10 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

Smart and Sustainable Approaches for Optimizing Performance of Wireless Networks Sherin Zafar, Mohd Abdul Ahad, Syed Imran Ali, Deepa Mehta, M. Afshar Alam, 2022-01-28 SMART AND SUSTAINABLE APPROACHES FOR OPTIMIZING PERFORMANCE OF WIRELESS NETWORK Explores the intersection of sustainable growth green computing and automation and performance optimization of 5G wireless networks Smart and Sustainable Approaches for Optimizing Performance of Wireless Networks explores how wireless sensing applications green computing and Big Data analytics can increase the energy efficiency and environmental sustainability of real time applications across areas such as healthcare agriculture construction and manufacturing Bringing together an international team of expert contributors this authoritative volume highlights the limitations of conventional technologies and provides methodologies and approaches for addressing Quality of Service QOS issues and optimizing network performance In depth chapters cover topics including blockchain assisted secure data sharing smart 5G Internet of Things IoT scenarios intelligent management of ad hoc networks and the use of Artificial Intelligence AI Machine Learning ML and Deep Learning DL techniques in smart healthcare smart manufacturing and smart agriculture Covers design implementation optimization and sustainability of wireless and sensor based networks Discusses concepts of sustainability and green computing as well as their relevance to society and the environment Addresses green automation applications in various disciplines such as computer science nanoscience information technology IT and biochemistry Explores various smart and sustainable approaches for current wireless and sensor based networks Includes detailed case studies of current methodologies

applications and implementations Smart and Sustainable Approaches for Optimizing Performance of Wireless Networks Real time Applications is an essential resource for academic researchers and industry professionals working to integrate sustainable development and Information and Communications Technology ICT **Cognitive Wireless Networks** Zhiyong Feng, Qixun Zhang, Ping Zhang, 2015-05-15 This brief examines the current research in cognitive wireless networks CWNs Along with a review of challenges in CWNs this brief presents novel theoretical studies and architecture models for CWNs advances in the cognitive information awareness and delivery and intelligent resource management technologies The brief presents the motivations and concepts of CWNs including theoretical studies of temporal and geographic distribution entropy as well as cognitive information metrics A new architecture model of CWNs is proposed with theoretical functional and deployment architectures supporting cognitive information flow and resource flow Key technologies are identified to achieve the efficient cognitive information awareness and delivery The brief concludes by validating the effectiveness of proposed theories and technologies using the CWNs testbed and discussing the importance of standardization practices The context and analysis provided by this text are ideal for researchers and practitioners interested in wireless networks and cognitive information Cognitive Wireless Networks is also valuable for advanced level students studying resource management and networking COMPUTING AND NETWORK SUSTAINABILITY, 2019 **IT Applications for Sustainable Living** Muhamad Husaini Abu Bakar, Tajul Adli Abdul Razak, Andreas Öchsner, 2023-08-28 The Internet of Things IoT has emerged as a new paradigm that connects the physical world with the digital world It is a network of interconnected devices sensors and objects that can communicate with each other collect and exchange data and perform various tasks without human intervention The IoT has the potential to revolutionize various industries such as healthcare transportation manufacturing and agriculture by enabling real time monitoring automation and optimization of processes This book is a collection of research manuscripts that explores the latest developments in smart technologies for sustainable living with reference to the IoT landscape including its architecture applications and challenges The research covers a wide range of topics including character segmentation recognition and classification deep learning smart home earthquake early warning system wireless sensor network embedded RFID system and many more It also discusses various IoT platforms protocols and standards that are being developed to enable seamless integration and interoperability of IoT devices and services The research book aims to become a valuable resource for researchers practitioners and policymakers interested in smart technologies and sustainable living *Data-Driven Wireless Networks* Yue Gao, Zhijin Qin, 2018-10-19 This SpringerBrief discusses the applications of sparse representation in wireless communications with a particular focus on the most recent developed compressive sensing CS enabled approaches With the help of sparsity property sub Nyquist sampling can be achieved in wideband cognitive radio networks by adopting compressive sensing which is illustrated in this brief and it starts with a comprehensive overview of compressive sensing principles Subsequently the authors present a complete framework for data

driven compressive spectrum sensing in cognitive radio networks which guarantees robustness low complexity and security Particularly robust compressive spectrum sensing low complexity compressive spectrum sensing and secure compressive sensing based malicious user detection are proposed to address the various issues in wideband cognitive radio networks Correspondingly the real world signals and data collected by experiments carried out during TV white space pilot trial enables data driven compressive spectrum sensing The collected data are analysed and used to verify our designs and provide significant insights on the potential of applying compressive sensing to wideband spectrum sensing This SpringerBrief provides readers a clear picture on how to exploit the compressive sensing to process wireless signals in wideband cognitive radio networks Students professors researchers scientists practitioners and engineers working in the fields of compressive sensing in wireless communications will find this SpringerBrief very useful as a short reference or study guide book Industry managers and government research agency employees also working in the fields of compressive sensing in wireless communications will find this SpringerBrief useful as well

Virtualized Wireless Networks

Tho Le-Ngoc,Rajesh Dawadi,Saeedeh Parsaeefard,Mahsa Derakhshani,2017-08-11 There have been recent advancements in wireless network technologies such as wireless virtualization to accommodate the exponential growth in demand as well as to increase energy and infrastructure efficiencies This SpringerBrief discusses the user association and resource allocation aspects in Virtualized Wireless Networks VWNs and highlights key technology innovations to meet their requirements Various issues in practical implementation of VWNs are discussed along with potential techniques such as Massive MIMO Cloud Radio Access Network C RAN and non orthogonal multiple access NOMA This SpringerBrief will target researchers and professionals working on current and next generation wireless networks The content is also valuable for advanced level students interested in wireless communications and signal processing for communications

Computing and Network Sustainability Sheng-Lung Peng,Nilanjan Dey,Mahesh Bunde,2019 This book offers a compilation of technical papers presented at the International Research Symposium on Computing and Network Sustainability IRSCNS 2018 held in Goa India on 30 31st August 2018 It covers areas such as sustainable computing and security sustainable systems and technologies sustainable methodologies and applications sustainable networks applications and solutions user centered services and systems and mobile data management Presenting novel and recent technologies it is a valuable resource for researchers and industry professionals alike

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