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*Wireless Power Theft
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EMILIE EWING

Techno-Societal 2018 CRC Press

This book constitutes the proceedings of the 11th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2016, held in Bozeman, MT, USA, in August 2016. The 50 full papers and 9 invited papers presented were carefully reviewed and selected from 148 submissions. WASA is designed to be a forum for theoreticians, system and application designers, protocol developers and practitioners to discuss and express their views on the current trends, challenges, and state-of-

the-art solutions related to various issues in wireless networks. Topics of interests include, but not limited to, effective and efficient state-of-the-art algorithm design and analysis, reliable and secure system development and implementations, experimental study and testbed validation, and new application exploration in wireless networks.

ICCCES 2021 Springer Nature
IWCMC 2020 will target a wide spectrum of the state of the art as well as emerging topics pertaining to wireless networks, wireless sensors, vehicular communications, and mobile computing
**11th International Conference,
WASA 2016, Bozeman, MT, USA,**

August 8-10, 2016. Proceedings CRC Press

This book presents selected papers from the 5th International Conference on Inventive Systems and Control (ICISC 2021), held on 7-8 January 2021 at JCT College of Engineering and Technology, Coimbatore, India. The book includes an analysis of the class of intelligent systems and control techniques that utilises various artificial intelligence technologies, where there are no mathematical models and systems available to make them remain controlled. Inspired by various existing intelligent techniques, the primary goal is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies. The

proceedings of ICISC 2021 aim at presenting the state-of-the-art research developments, trends, and solutions for the challenges faced by the intelligent systems and control community with the real-world applications. The included research articles feature the novel and unpublished research works on intelligent system representation and control.

ICWC 2021 World Scientific

This book includes papers presented at SOCO 2018, CISIS 2018 and ICEUTE 2018, all held in the beautiful and historic city of San Sebastian (Spain), in June 2018. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate,

and analyze highly complex issues and phenomena. After a rigorous peer-review process, the 13th SOCO 2018 International Program Committee selected 41 papers, with a special emphasis on optimization, modeling and control using soft computing techniques and soft computing applications in the field of industrial and environmental enterprises. The aim of the 11th CISIS 2018 conference was to offer a meeting opportunity for academic and industry researchers from the vast areas of computational intelligence, information security, and data mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, was the catalyst for the overall event. Eight of the papers included in the book were selected by

the CISIS 2018 International Program Committee. The International Program Committee of ICEUTE 2018 selected 11 papers for inclusion in these conference proceedings.

Special Issue on Signal Processing and Security in Distributed Systems

European Alliance for Innovation

This book presents research in artificial techniques using intelligence for energy transition, outlining several applications including production systems, energy production, energy distribution, energy management, renewable energy production, cyber security, industry 4.0 and internet of things etc. The book goes beyond standard application by placing a specific focus on the use of AI techniques to address the challenges related to the different applications and

topics of energy transition. The contributions are classified according to the market and actor interactions (service providers, manufacturers, customers, integrators, utilities etc.), to the SG architecture model (physical layer, infrastructure layer, and business layer), to the digital twin of SG (business model, operational model, fault/transient model, and asset model), and to the application domain (demand side management, load monitoring, micro grids, energy consulting (residents, utilities), energy saving, dynamic pricing revenue management and smart meters, etc.).

Smart Buildings Digitalization IOS Press

This book includes high quality research papers presented at the International

Conference on Communication, Computing and Electronics Systems 2021, held at the PPG Institute of Technology, Coimbatore, India, on 28-29 October 2021. The volume focuses mainly on the research trends in cloud computing, mobile computing, artificial intelligence and advanced electronics systems. The topics covered are automation, VLSI, embedded systems, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, communication networks, Internet of Things, cyber-physical systems, and healthcare informatics.

Smart Intelligent Computing and Communication Technology Springer Nature

The book includes high-quality research papers presented at the International Conference on Innovative Computing and Communication (ICICC 2018), which was held at the Guru Nanak Institute of Management (GNIM), Delhi, India on 5-6 May 2018. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications. Intelligent Data Communication Technologies and Internet of Things
Springer Nature
All over the world, vast research is in progress on the domain of Industry 4.0

and related techniques. Industry 4.0 is expected to have a very high impact on labor markets, global value chains, education, health, environment, and many social economic aspects. Industry 4.0 Interoperability, Analytics, Security, and Case Studies provides a deeper understanding of the drivers and enablers of Industry 4.0. It includes real case studies of various applications related to different fields, such as cyber physical systems (CPS), Internet of Things (IoT), cloud computing, machine learning, virtualization, decentralization, blockchain, fog computing, and many other related areas. Also discussed are interoperability, design, and implementation challenges. Researchers, academicians, and those working in industry around the globe will

find this book of interest. FEATURES Provides an understanding of the drivers and enablers of Industry 4.0 Includes real case studies of various applications for different fields Discusses technologies such as cyber physical systems (CPS), Internet of Things (IoT), cloud computing, machine learning, virtualization, decentralization, blockchain, fog computing, and many other related areas Covers design, implementation challenges, and interoperability Offers detailed knowledge on Industry 4.0 and its underlying technologies, research challenges, solutions, and case studies

Proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation Springer

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific

local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Proceedings of ICICC 2018, Volume 2

Academic Press

Alarm Systems and Theft Prevention, Second Edition, recounts the sometimes sad, sometimes humorous, and nearly always unfortunate experiences of manufacturers, distributors, retailers, and individuals who have lost valuable merchandise, money, jewelry, or

securities to criminal attacks. In most cases the losses occurred because there was a weak link: a vulnerability in the total security defense. The book presents in practical terms those weaknesses in physical security, alarm systems, or related security procedures that, when blended together, result in vulnerability. In addition to analyzing these cases and identifying the key elements of vulnerability, remedies for curing the weakness are also offered. Other sections of this book deal with the application, strengths, and limitations of security equipment. For the most part, equipment is presented from the practical viewpoint—what a security device or system will do (or not do) and how it should be applied and operated, rather than the detail of mechanical

design, electrical circuitry, or laboratory theories. This book is written in layman's language and is intended to be read by people who supply, use, or need security services and equipment.

Complex, Intelligent and Software Intensive Systems Springer

Deforestation and forest degradation represent a significant fraction of the annual worldwide human-induced emission of greenhouse gases to the atmosphere, the main source of biodiversity losses and the destruction of millions of people's homes. Despite local/regional causes, its consequences are global. This book provides a general view about deforestation dynamics around the world, incorporating analyses of its causes, impacts and actions to prevent it. Its 17 Chapters, organized in

three sections, refer to deforestation impacts on climate, soil, biodiversity and human population, but also describe several initiatives to prevent it. A special emphasis is given to different remote-sensing and mapping techniques that could be used as a source for decision-makers and society to promote forest conservation and control deforestation.

Big Data Analytics in Future Power Systems CRC Press

The conference is being organized by Madan Mohan Malaviya University of Technology Gorakhpur with an aim to provide a platform for researchers, scientists, technocrats, academicians and engineers to exchange their innovative ideas and new challenges facing in the field of Electrical and Electronics Engineering This Conference

will be a platform to focus on the core technological developments in the emerging fields like wireless communication, RF microwave Radar, Electrical machine, power system, energy system, Image computing, intelligent information retrieval, intelligent agents, electrical and electronics materials, Fuzzy logic control, control system, evolutionary computing and so on

International Conference on Innovative Computing and Communications

Springer Nature

Power systems are increasingly collecting large amounts of data due to the expansion of the Internet of Things into power grids. In a smart grids scenario, a huge number of intelligent devices will be connected with almost no

human intervention characterizing a machine-to-machine scenario, which is one of the pillars of the Internet of Things. The book characterizes and evaluates how the emerging growth of data in communications networks applied to smart grids will impact the grid efficiency and reliability.

Additionally, this book discusses the various security concerns that become manifest with Big Data and expanded communications in power grids. Provide a general description and definition of big data, which has been gaining significant attention in the research community. Introduces a comprehensive overview of big data optimization methods in power system. Reviews the communication devices used in critical infrastructure, especially power systems;

security methods available to vet the identity of devices; and general security threats in CI networks. Presents applications in power systems, such as power flow and protection. Reviews electricity theft concerns and the wide variety of data-driven techniques and applications developed for electricity theft detection.

Data-Intensive Computing in Smart Microgrids MDPI

Sustainable Networks in Smart Grid presents global challenges in smart metering with renewable energy resources, micro-grid design, communication technologies, big data, privacy and security in the smart grid. Providing an overview of different available PLC technologies and configurations and their applications in

different sectors, this book provides case studies and practical implementation details of smart grid technology, paying special attention to Advanced Metering Infrastructure (AMI) scenarios with the presence of Distribution Grid (DG) and Electric Vehicles (EV). Covering regulatory policies for energy storage, management strategies for microgrid operation, and key performance indicators for smart grid development, this reference compiles up-to-date information on different aspects of the Internet of Smart Metering. In addition, innovative contributions on Data Analytics, Energy Theft Detection, Data-Driven Framework, Blockchain-IoT-enabled Sensor Networks, and Smart Contacts in the Blockchain are also included. Includes case studies and

practical implementation examples of different smart grid applications, their benefits, characteristics and requirements Provides a SWOT analysis of the impact of recent regulatory changes on the business case for energy storage (ES) Presents a comprehensive survey of privacy-preserving schemes for smart grid communications
Proceedings of the 11th Asia-Pacific Power and Energy Engineering Conference (APPEEC 2019), April 19-21, 2019, Xiamen, China John Wiley & Sons
 The research scenario in advanced systems for protecting critical infrastructures and for deeply networked information tools highlights a growing link between security issues and the need for intelligent processing abilities in the area of information systems. To face

the ever-evolving nature of cyber-threats, monitoring systems must have adaptive capabilities for continuous adjustment and timely, effective response to modifications in the environment. Moreover, the risks of improper access pose the need for advanced identification methods, including protocols to enforce computer-security policies and biometry-related technologies for physical authentication. Computational Intelligence methods offer a wide variety of approaches that can be fruitful in those areas, and can play a crucial role in the adaptive process by their ability to learn empirically and adapt a system's behaviour accordingly. The International Workshop on Computational Intelligence for Security in Information Systems (CISIS) proposes a

meeting ground to the various communities - volved in building intelligent systems for security, namely: information security, data mining, adaptive learning methods and soft computing among others. The main goal is to allow experts and researchers to assess the benefits of learning methods in the data-mining area for information-security applications. The Workshop offers the opportunity to interact with the leading industries actively involved in the critical area of security, and have a picture of the current solutions adopted in practical domains. This volume of *Advances in Soft Computing* contains accepted papers presented at CISIS'08, which was held in Genova, Italy, on October 23rd-24th, 2008. *Case Studies on Data Centers and*

Automation Springer

Power systems are increasingly collecting large amounts of data due to the expansion of the Internet of Things into power grids. In a smart grids scenario, a huge number of intelligent devices will be connected with almost no human intervention characterizing a machine-to-machine scenario, which is one of the pillars of the Internet of Things. The book characterizes and evaluates how the emerging growth of data in communications networks applied to smart grids will impact the grid efficiency and reliability. Additionally, this book discusses the various security concerns that become manifest with Big Data and expanded communications in power grids. Provide a general description and definition of

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Alarm Systems and Theft Prevention

Academic Press

This book is a collection of best selected research papers presented at the

Conference on Machine Learning, Deep Learning and Computational Intelligence for Wireless Communication (MDCWC 2020) held during October 22nd to 24th 2020, at the Department of Electronics and Communication Engineering, National Institute of Technology Tiruchirappalli, India. The presented papers are grouped under the following topics (a) Machine Learning, Deep learning and Computational intelligence algorithms (b) Wireless communication systems and (c) Mobile data applications and are included in the book. The topics include the latest research and results in the areas of network prediction, traffic classification, call detail record mining, mobile health care, mobile pattern recognition, natural language processing, automatic speech

processing, mobility analysis, indoor localization, wireless sensor networks (WSN), energy minimization, routing, scheduling, resource allocation, multiple access, power control, malware detection, cyber security, flooding attacks detection, mobile apps sniffing, MIMO detection, signal detection in MIMO-OFDM, modulation recognition, channel estimation, MIMO nonlinear equalization, super-resolution channel and direction-of-arrival estimation. The book is a rich reference material for academia and industry.

Smart Communications, Intelligent Algorithms and Interactive Methods

BoD - Books on Demand

This book provides comprehensive coverage of the latest advances and trends in information technology,

science and engineering. Specifically, it addresses a number of broad themes, including multi-modal informatics, data mining, agent-based and multi-agent systems for health and education informatics, which inspire the development of intelligent information technologies. The contributions cover a wide range of topics such as AI applications and innovations in health and education informatics; data and knowledge management; multi-modal application management; and web/social media mining for multi-modal informatics. Outlining promising future research directions, the book is a valuable resource for students, researchers and professionals, and a useful reference guide for newcomers to the field. This book is a compilation of

the papers presented in the 2021 International Conference on Multi-modal Information Analytics, held in Huhehaote, China, on April 23–24, 2021. *Wireless Algorithms, Systems, and Applications* CRC Press

This book includes the proceedings of the 15th International Conference on Complex, Intelligent, and Software Intensive Systems, which took place in Asan, Korea, on July 1–3, 2021. Software intensive systems are systems, which heavily interact with other systems, sensors, actuators, devices, and other software systems and users. More and more domains are involved with software intensive systems, e.g., automotive, telecommunication systems, embedded systems in general, industrial automation systems, and business

applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components. Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations build a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and

cognitive sciences is very important factor for the future development and innovation of software intensive and complex systems. The aim of the book is to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: Software intensive systems, complex systems, and intelligent systems.

Technological Trends in Improved Mobility of the Visually Impaired Springer Nature

Proceedings of First International Conference on Computational Electronics for Wireless Communications ICCWC 2021 Springer Nature Intelligent Data Communication Technologies and Internet of Things Proceedings of ICICI 2021 Springer Nature 2018 International Conference on Computing, Mathematics and Engineering Technologies (iCoMET). Inventive Systems and Control Proceedings of ICISC 2021 Springer Nature