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Smart Grid Security

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**Hussein T. Mouftah, Melike Erol-
Kantarci, Mubashir Husain Rehmani**



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Smart Grid Security Sanjay Goel, Yuan Hong, Vagelis Papakonstantinou, Dariusz Kloza, 2015-04-28 This book on smart grid security is meant for a broad audience from managers to technical experts It highlights security challenges that are faced in the smart grid as we widely deploy it across the landscape It starts with a brief overview of the smart grid and then discusses some of the reported attacks on the grid It covers network threats cyber physical threats smart metering threats as well as privacy issues in the smart grid Along with the threats the book discusses the means to improve smart grid security and the standards that are emerging in the field The second part of the book discusses the legal issues in smart grid implementations particularly from a privacy EU data protection point of view

Smart and Power Grid Systems - Design Challenges and Paradigms Kolla Bhanu Prakash, Sanjeevikumar Padmanaban, Massimo Mitolo, 2023-03-10 The Smart Grid represents an unprecedented opportunity to move the energy industry into a new era of reliability availability and efficiency that will contribute to our economic and environmental health During the transition period it will be critical to carry out testing technology improvements consumer education development of standards and regulations and information sharing between projects to ensure that the benefits we envision from the Smart Grid become a reality Today an electricity disruption such as a blackout can have a domino effect a series of failures that can affect banking communications traffic and security This is a particular threat in the winter when homeowners can be left without heat A smarter grid will add resiliency to our electric power system and make it better prepared to address emergencies such as severe storms earthquakes large solar flares and terrorist attacks Because of its two way interactive capacity the Smart Grid will allow for automatic rerouting when equipment fails or outages occur This will minimize outages and minimize the effects when they do happen When a power outage occurs Smart Grid technologies will detect and isolate the outages containing them before they become large scale blackouts The new technologies will also help ensure that electricity recovery resumes quickly and strategically after an emergency routing electricity to emergency services first for example In addition the Smart Grid will take greater advantage of customer owned power generators to produce power when it is not available from utilities By combining these distributed generation resources a community could keep its health center police department traffic lights phone system and grocery stores operating during emergencies In addition the Smart Grid is a way to address an aging energy infrastructure that needs to be upgraded or replaced This book shows that Smart Grids can address energy efficiency to bring increased awareness to consumers about the connection between electricity use and the environment bring increased national security to our energy system drawing on greater amounts of home grown electricity that is more resistant to natural disasters and attack

Big Data Privacy and Security in Smart Cities Richard Jiang, Ahmed Bouridane, Chang-Tsun Li, Danny Crookes, Said Boussakta, Feng Hao, Eran A. Edirisinghe, 2022-09-08 This book highlights recent advances in smart cities technologies with a focus on new technologies such as biometrics blockchains data encryption data mining machine learning

deep learning cloud security and mobile security During the past five years digital cities have been emerging as a technology reality that will come to dominate the usual life of people in either developed or developing countries Particularly with big data issues from smart cities privacy and security have been a widely concerned matter due to its relevance and sensitivity extensively present in cybersecurity healthcare medical service e commercial e governance mobile banking e finance digital twins and so on These new topics rises up with the era of smart cities and mostly associate with public sectors which are vital to the modern life of people This volume summarizes the recent advances in addressing the challenges on big data privacy and security in smart cities and points out the future research direction around this new challenging topic

Transportation and Power Grid in Smart Cities Hussein T. Mouftah,Melike Erol-Kantarci,Mubashir Husain

Rehmani,2018-11-28 With the increasing worldwide trend in population migration into urban centers we are beginning to see the emergence of the kinds of mega cities which were once the stuff of science fiction It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real time monitoring and response services for public utilities and transportation systems Part speculative look into the future of the world s urban centers part technical blueprint this visionary book helps lay the groundwork for the communication networks and services on which tomorrow s smart cities will run Written by a uniquely well qualified author team this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality **Advances in Smart Energy**

Systems Biplab Das,Ripon Patgiri,Valentina Emilia Balas,2022-08-31 This book discusses smart computing techniques which offer an effective solution for investigating and modeling the stochastic behavior of renewable energy generation operation of grid connected renewable energy systems and smart decision making among alternatives It also discusses applications of soft computing techniques to make an intelligent decision for optimum use of suitable alternatives which gives an upper hand compared to conventional systems It includes upgradation of the existing system by embedding of machine intelligence The authors present combination of use of neural networks fuzzy systems and genetic algorithms which are illustrated in several applications including forecasting security verification diagnostics of a specific fault efficiency optimization etc Smart energy systems integrate a holistic approach in diverse sectors including electricity thermal comfort power industry transportation It allows affordable and sustainable solutions to solve the future energy demands with suitable alternatives Thus contributions regarding integration of the machine intelligence with the energy system for efficient collection and effective utilization of the available energy sources are useful for further advanced studies **Electricity Decentralization in the European**

Union Rafael Leal-Arcas,2023-07-10 Electricity Decentralization in the European Union Towards Zero Carbon and Energy Transition Second Edition examines progress in decentralization across the European Union with each chapter focusing on developments and innovations in a specific country Sections provide an overview of the current role and state of smart grids

the conceptualization of energy transition and specific cases across all EU states Across the chapters regulatory frameworks are assessed to identify to what extent it is conducive to decentralization with specific outcomes of decentralization covered in detail including deployment of smart grids and meters demand response electric vehicles and storage The book highlights how specific EU member states are progressing towards deployment of these tools and technologies along with the specific needs and regulatory barriers in each and recommendations for how regulation can be more encouraging In addition electricity interconnections in the EU are considered as a vital step towards decentralization in order to boost energy security and energy efficiency Finally the book includes a detailed examination of data protection concerns that arise from the advent of new technologies that collect personal information such as smart grids assessing current regulation on data protection and identifying areas for improvement as well as innovative finance options for sustainable energy Analyzes the regulatory environment with regard to decentralization Explores new tools and technologies to facilitate decentralization along with current progress in each Addresses barriers and suggests improvements across tools technologies and regulations

Emerging Technologies in Data Mining and Information Security Paramartha Dutta,Satyajit Chakrabarti,Abhishek Bhattacharya,Soumi Dutta,Vincenzo Piuri,2022-09-28 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2022 held at Institute of Engineering Management Kolkata India during February 23 25 2022 The book is organized in three volumes and includes high quality research work by academicians and industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of Things IoT and information security

Security and Privacy in Smart Grid Asmaa Abdallah,Xuemin Shen,2018-07-26 This SpringerBrief addresses the main security concerns for smart grid e g the privacy of electricity consumers the exchanged messages integrity and confidentiality the authenticity of participated parties and the false data injection attacks Moreover the authors demonstrate in detail the various proposed techniques to secure the smart grid s different communication networks and preserve the privacy of the involved Over many years power grid has generated electricity from central generators and distributed it in one direction from the generation stations to end users also information is one directional so that the grid s control center doesn t get enough information about customers requirements and consequently can t prevent electricity losses So the electricity grid is merged with information and communication technology to form smart grid The main target of this incorporation is to connect different parties of power grid to exchange information about grid conditions and customers requirements and consequently improve the reliability and efficiency of electricity generation and distribution That upgrade of the power grid exposes it to the cyber security threats that the communication networks suffer from such as malicious attacks to forge the electricity consumption readings or price extract personal information for residential consumers such as daily habits and life style or attack some grid s resources and equipment availability using

denial of service attacks Also novel threats are introduced in smart grid due to the power grid nature such as false data injection attack in which the adversary compromises several measurement units and injects false information about the grid conditions that mislead the grid's control center to make wrong decisions for the grid and consequently impact on its stability and efficiency

Smart Metering Applications Nikolaos Efkarpidis, Martin Geidl, Holger Wache, Marco Peter, Marc Adam, 2022-10-03 This book presents a large number of smart metering applications from the points of view of different stakeholders The applications are clustered with respect to three types of stakeholders a end customers b energy service providers and c authorities research institutions or other organizations The goal of the book is to examine the implementation potential for each application considering the interests and benefits for the key stakeholders main technical and regulatory requirements as well as limitations and barriers A business case for each application is created that can provide guidelines to the stakeholders involved in its realization The book additionally investigates current business models for smart metering applications A survey on the current techno economic potential of such applications is conducted based on a questionnaire filled by various stakeholders The book will be of interest to academic research institutions but also engineers in industry authorities or other organizations

Advancements in Cybersecurity Agbotiname Lucky Imoize, Oleksandr Kuznetsov, Oleksandr Lemeshko, Oleksandra Yeremenko, 2025-06-26 This book offers a comprehensive exploration of cutting edge research and developments in the field of cybersecurity It presents a curated collection of chapters that reflect the latest in empirical data approximation malware recognition information security technologies and beyond Advancements in Cybersecurity Next Generation Systems and Applications offers readers a broad perspective on the multifaceted challenges and solutions in contemporary cybersecurity through topics ranging from the application of blockchain technology in securing information systems to the development of new cost functions for the iterative generation of cryptographic components The book not only addresses technical aspects but also provides insights into the theoretical frameworks and practical applications that underpin the development of robust cybersecurity systems It explores the optimization of algorithms for generating nonlinear substitutions the application of machine learning models for security evaluation and the implementation of deep learning techniques for detecting sophisticated cyber attacks Through its in depth analysis and forward looking perspectives this book contributes significantly to advancing cybersecurity research and practice paving the way for a safer digital future This book is designed to serve as an essential resource for researchers practitioners policymakers and engineers in the fields of ICT next generation computing and IT security including cryptography AI ML DL cyber resilience network security threat modeling and risk assessment digital forensics secure software development hardware security and human centric security

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