

# WIRELESS POWER THEFT DETECTION AND INTIMATION SYSTEM BY USING GSM

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## ABSTRACT

*Power Theft is a non –ignorable crime that is highly prevented, and at the same time it directly affected the economy of a nation. Electricity theft is a social evil, so it has to be completely eliminated. Power consumption and losses have to be closely monitored so that the generated power is utilized in a most efficient manner.*

*Electrical power theft detection system is used to detect an unauthorized tapping on transmission lines. Existing system is not able to identify the exact location of tapping. This system actually finds out on which electrical line there is a tapping. This is a real time system. Wireless data transmission and receiving technique is used. This will protect distribution network from power theft done by tapping, meter tampering etc.*

**Key words:** Electrical Power Theft, Wireless Data Transmission and Receiving.

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## 1. INTRODUCTION

Indian power system faces loss of about 30% of its total production of electricity. This loss is very high which takes place because of transmission losses, electricity theft, etc. Major portion of its losses are due to power theft. Power theft is done by taking tapping or hooking from transmission line or by from the meters.

Power Theft is a non ignorable crime and at the same time it directly affected the economy of a nation. Electricity theft a social evil, so it has to be completely

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*Proceedings of First International Conference on Computational Electronics for Wireless Communications* Sanyog Rawat, Arvind Kumar, Pramod Kumar, Jaume Anguera, 2022-01-03 This book includes high quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications ICCWC 2021 held at National Institute of Technology Kurukshetra Haryana India during June 11 12 2021 The book presents original research work of academics and industry professionals to exchange their knowledge of the state of the art research and development in computational electronics with an emphasis on wireless communications The topics covered in the book are radio frequency and microwave signal processing microelectronics and wireless networks

*Proceedings of Second International Conference on Computational Electronics for Wireless Communications* Sanyog Rawat, Sandeep Kumar, Pramod Kumar, Jaume Anguera, 2023-01-27 This book includes high quality papers presented at Second International Conference on Computational Electronics for Wireless Communications ICCWC 2022 held at National Institute of Technology Surathkal Karnataka India during June 9 10 2022 The book presents original research work of academics and industry professionals to exchange their knowledge of the state of the art research and development in computational electronics with an emphasis on wireless communications The topics covered in the book are radio frequency and microwave signal processing microelectronics and wireless networks

**IoT and Analytics in Renewable Energy Systems (Volume 2)** O.V. Gnana Swathika, K. Karthikeyan, Sanjeevikumar Padmanaban, 2023-08-11 Smart cities emanate from a smart renewable energy aided power grid The smart grid technologies offer an array of benefits like reliability availability and resiliency Smart grids phenomenally contribute to facilitating cities reaching those sustainability goals over time Digital technologies such as the Internet of Things IoT automation artificial intelligence AI and machine learning ML significantly contribute to the two way communication between utilities and customers in smart cities Five salient features of this book are as follows Smart grid to the smart customer Intelligent computing for smart grid applications Novel designs of IoT systems such as smart healthcare smart transportation smart home smart agriculture smart manufacturing smart grid smart education smart government smart traffic management systems Innovations in using IoT and AI in improving resilience of smart energy infrastructure Challenges and future research directions of smart city applications

**ITSPWC 2022** S. Kannadhasan, R. Nagarajan, George Ghinea, Alagar Karthick, Basim Alhadidi, Kanagaraj Venusamy, 2022-08-04 We are delighted to introduce the proceedings of the first edition of the 2022 International Conference on Intelligent Technologies in Security and Privacy for Wireless Communication ITSPWC 2022 This conference has brought researchers developers and practitioners around the world who are leveraging and developing the Wireless Communication The theme of ITSPWC 2022 was Security and Challenges for Wireless Communication and Power Energy The technical program of ITSPWC 2022 consisted of 33 full papers including 5 invited papers in oral presentation sessions at the main conference tracks The conference tracks were

Track 1 Recent Trends in IoT Track 2 Recent Trends in Smart Energy Systems and Transmission Track 3 Recent Trends in Embedded Systems and Track 4 Recent Trends in Communication Systems Aside from the high quality technical paper presentations the technical program also featured one invited talk and two technical workshops The invited talk was presented by Prof Kaushik Pal from Universidade Federal do Rio de Janeiro Brazil The ITSPWC workshop aimed to gain insights into key challenges understanding and design criteria of employing wireless technologies to develop and implement future related services and applications It was a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Technical Program Committee led by our Co Chairs Dr R Nagarajan Dr George Ghinea Dr Alagar Karthick Dr Bassim Alhadidi and Prof Kanagaraj Venusamy who have completed the peer review process of technical papers and made a high quality technical program We are also grateful to all the authors who submitted their papers to the ITSPWC 2022 conference and workshops We strongly believe that ITSPWC conference provides a good forum for all researcher developers and practitioners to discuss all science and technology aspects that are relevant to Security and Privacy in Wireless Communication We also expect that the future Wireless Communication conference will be as successful and stimulating as indicated by the contributions presented in this volume

Dr S Kannadhasan     *Intelligent Data Communication Technologies and Internet of Things* D. Jude Hemanth, Danilo Pelusi, Chandrasekar Vuppapapati, 2022-02-28 This book gathers selected papers presented at the 5th International Conference on Intelligent Data Communication Technologies and Internet of Things ICICI 2021 organized by JCT College of Engineering and Technology Coimbatore Tamil Nadu India during 27 28 August 2021 This book solicits the innovative research ideas and solutions for almost all the intelligent data intensive theories and application domains The general scope of this book covers the design architecture modeling software infrastructure and applications of intelligent communication architectures and systems for big data or data intensive applications In particular this book reports the novel and recent research works on big data mobile and wireless networks artificial intelligence machine learning social network mining intelligent computing technologies image analysis robotics and autonomous systems data security and privacy

Cyber-physical Systems and Digital Twins Michael E. Auer, Kalyan Ram B., 2019-07-10 This book constitutes the proceedings of the 16th International Conference on Remote Engineering and Virtual Instrumentation REV held at the BMS College of Engineering Bangalore India on 3 6 February 2019 Today online technologies are at the core of most fields of engineering as well as of society as a whole and are inseparably connected with Internet of Things cyber physical systems collaborative networks and grids cyber cloud technologies service architectures to name but a few Since it was first held in 2004 the REV conference has focused on the increasing use of the Internet for engineering tasks and the problems surrounding it The 2019 conference demonstrated and discussed the fundamentals applications and experiences in the field of online engineering and virtual instrumentation It also presented guidelines for university level courses on these topics in

view of the increasing globalization of education and the demand for teleworking remote services and collaborative working environments

**Cloud Computing in Smart Energy Meter Management** G. Senbagavalli,T. Kavitha,N. Amuthan,Ferdin Joe John Joseph,2025-06-04 Cloud Computing in Smart Energy Meter Management equips you with essential insights and practical solutions for effectively managing smart meter data through cutting edge technologies like artificial intelligence and cloud computing making it an invaluable resource for anyone looking to enhance their understanding of modern energy management Cloud Computing in Smart Energy Meter Management presents a structured review of the current research on smart energy meters with artificial intelligence and cloud computing solutions This book will help provide solutions for processing and analyzing the massive amounts of data involved in smart meters through cloud computing Readers will learn about data storage processing and dynamic pricing of smart energy data in the cloud as well as smart metering concepts dealing with the flow of power consumption from consumer to utility center It offers an in depth explanation of advanced metering infrastructure AMI which includes meter installation meter advising commissioning integration master data synchronization billing customer interface complaints and resolution In smart cities components in household energy meters are fitted with sensors and can interconnect with the Internet of Things to measure power consumption with an automated meter reading This book also acts as a new resource describing new technologies involved in the integration of smart metering with existing cellular networks Cloud Computing in Smart Energy Meter Management provides knowledge on the vital role played by artificial intelligence and cloud computing in smart energy meter reading with precise evaluations

**Inventive Systems and Control** V. Suma,Joy Iong-Zong Chen,Zubair Baig,Haoxiang Wang,2021-06-07 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

2020 International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems Chuanchao Huang,Yu-Wei Chan,Neil Yen,2021-06-01 This book covers cutting edge and advanced research on data processing techniques and applications for cyber physical systems gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber Physical Systems DPTA 2020 held in Laibin City Guangxi Province China on December 11 12 2020 It examines a wide range of topics including distributed

processing for sensor data in CPS networks approximate reasoning and pattern recognition for CPS networks data platforms for efficient integration with CPS networks machine learning algorithms for CPS networks and data security and privacy in CPS networks Outlining promising future research directions the book offers a valuable resource for students researchers and professionals alike while also providing a useful reference guide for newcomers to the field 40TH GISFI STANDARDIZATION SERIES MEETING JOINTLY WITH INTERNATIONAL CONFERENCE ON 6G AND WIRELESS NETWORK TECHNOLOGIES Kolhapur Institute of Technology's College of Engineering (Autonomous),2023-07-07

Sustainable Materials and Technologies in VLSI and Information Processing Shashi Kant Dargar,Shilpi Birla,Abha Dargar,Avtar Singh,D. Ganeshaperumal,2025-05-23 The International Conference on Sustainable Materials and Technologies in VLSI and Information Processing aimed to converge advancements in semiconductor technology with sustainable practices addressing the critical need for eco consciousness in the field of Very Large Scale Integration VLSI and Information Processing The primary purpose of the conference was to explore innovative materials manufacturing processes and design methodologies that minimize environmental impact while optimizing performance and functionality in electronic devices Key features of the conference included interdisciplinary discussions on sustainable materials such as biodegradable polymers low power semiconductor materials and recyclable electronic components Additionally it focused on emerging technologies like quantum computing neuromorphic computing and photonic integrated circuits exploring their potential contributions to sustainability in VLSI and information processing The intended audience comprised of researchers scientists engineers and industry professionals from academia government and private sectors involved in semiconductor technology materials science environmental sustainability and information processing What set this conference apart was its unique emphasis on sustainability within the realm of VLSI and information processing While there are conferences focusing on either semiconductor technology or sustainability separately this conference bridged the gap between the two fostering discussions and collaborations that pave the way for greener and more efficient electronic devices and systems *ICCAP 2021 A* Mohan,D. S. Vijayan,2021-12-22 This proceeding constitutes the thoroughly refereed proceedings of the 1st International Conference on Combinatorial and Optimization ICCAP 2021 December 7 8 2021 This event was organized by the group of Professors in Chennai The Conference aims to provide the opportunities for informal conversations have proven to be of great interest to other scientists and analysts employing these mathematical sciences in their professional work in business industry and government The Conference continues to promote better understanding of the roles of modern applied mathematics combinatorics and computer science to acquaint the investigator in each of these areas with the various techniques and algorithms which are available to assist in his or her research We selected 257 papers were carefully reviewed and selected from 741 submissions The presentations covered multiple research fields like Computer Science Artificial Intelligence internet technology smart health care etc brought the discussion on how to shape optimization methods

around human and social needs      Data-Intensive Computing in Smart Microgrids Herodotos Herodotou,2021-09-06

Microgrids have recently emerged as the building block of a smart grid combining distributed renewable energy sources energy storage devices and load management in order to improve power system reliability enhance sustainable development and reduce carbon emissions At the same time rapid advancements in sensor and metering technologies wireless and network communication as well as cloud and fog computing are leading to the collection and accumulation of large amounts of data e g device status data energy generation data consumption data The application of big data analysis techniques e g forecasting classification clustering on such data can optimize the power generation and operation in real time by accurately predicting electricity demands discovering electricity consumption patterns and developing dynamic pricing mechanisms An efficient and intelligent analysis of the data will enable smart microgrids to detect and recover from failures quickly respond to electricity demand swiftly supply more reliable and economical energy and enable customers to have more control over their energy use Overall data intensive analytics can provide effective and efficient decision support for all of the producers operators customers and regulators in smart microgrids in order to achieve holistic smart energy management including energy generation transmission distribution and demand side management This book contains an assortment of relevant novel research contributions that provide real world applications of data intensive analytics in smart grids and contribute to the dissemination of new ideas in this area      **Technological Applications for Smart Sensors** S. Kannadhasan,R. Nagarajan,Alagar Karthick,V. Kumar Chinnaiyan,2025-09-15 This new volume presents a plethora of clever real time applications of smart sensor technology with examples from diverse areas The volume showcases novel applications of smart sensors such as for automatic dual axis solar tracking systems for wearable flexible electronic devices for effective security systems in banking and finance in healthcare for cancer detection and cardiac patient monitoring for chemical safety in laboratories for water quality monitoring systems for agricultural irrigation control for maintenance of industrial machines for fire detection safety systems to name a few of the many smart sensor innovations highlighted in this volume      **Smart Intelligent Computing and Communication Technology** V.D. Ambeth Kumar,S. Malathi,V.E. Balas,2021-10-07 Recent developments in the fields of intelligent computing and communication have paved the way for the handling of current and upcoming problems and brought about significant technological advancements This book presents the proceedings of IConIC 2021 the 4th International Conference on Intelligent Computing held on 26 and 27 March 2021 in Chennai India The principle objective of the annual IConIC conference is to provide an international scientific forum where participants can exchange innovative ideas in relevant fields and interact in depth through discussion with their peer group The theme of the 2021 conference and this book is Smart Intelligent Computing and Communication Technology and the 109 papers included here focus on the technological innovations and trendsetting initiatives in medicine industry education and security that are improving and optimizing business and technical processes and enabling inclusive growth The papers are grouped under 2

headings Evolution of Computing Intelligence and Computing and Communication and cover a broad range of intelligent computing research and applications The book provides an overview of the cutting edge developments and emerging areas of study in the technological fields of intelligent computing and will be of interest to researchers and practitioners from both academia and industry

**Computer Vision and Machine Intelligence for Renewable Energy Systems** Ashutosh Kumar Dubey, Abhishek Kumar, Umesh Chandra Pati, Fausto Pedro Garcia Marquez, Vicente García-Díaz, Arun Lal Srivastav, 2024-09-20 Computer Vision and Machine Intelligence for Renewable Energy Systems offers a practical systemic guide to the use of computer vision as an innovative tool to support renewable energy integration This book equips readers with a variety of essential tools and applications Part I outlines the fundamentals of computer vision and its unique benefits in renewable energy system models compared to traditional machine intelligence minimal computing power needs speed and accuracy even with partial data Part II breaks down specific techniques including those for predictive modeling performance prediction market models and mitigation measures Part III offers case studies and applications to a wide range of renewable energy sources and finally the future possibilities of the technology are considered The very first book in Elsevier's cutting edge new series Advances in Intelligent Energy Systems Computer Vision and Machine Intelligence for Renewable Energy Systems provides engineers and renewable energy researchers with a holistic clear introduction to this promising strategy for control and reliability in renewable energy grids Provides a sorely needed primer on the opportunities of computer vision techniques for renewable energy systems Builds knowledge and tools in a systematic manner from fundamentals to advanced applications Includes dedicated chapters with case studies and applications for each sustainable energy source Future Electricity System Based on Energy Internet: Energy storage system design, Optimal Scheduling, Security, Attack Model and Countermeasures Dou An, Huan Xi, Hanlin Zhang, Jianhua Yang, Lei Chai, 2023-11-09 Energy Internet a futuristic evolution of electricity system is conceptualized as an energy sharing network The energy internet integrates advanced sensors efficient measurement technologies advanced control methods and efficient energy utilization conversion storage system to achieve economical efficient and environmentally friendly operation of the power grid system The energy internet also contains a large amount of heterogeneous information which requires the support of information technology more than traditional power system design Moreover due to the open network environment of the energy internet any anomaly or malicious attack in the system can bring unpredictable and significant losses to the overall grid operation

**Artificial Intelligence Techniques for a Scalable Energy Transition** Moamar Sayed-Mouchaweh, 2020-06-19 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

Proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics 2022 Aboul Ella Hassanien,Václav Snášel,Mincong Tang,Tien-Wen Sung,Kuo-Chi Chang,2022-11-17 This proceedings book constitutes the refereed proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics AISI 2021 which took place in Cairo Egypt during November 20 22 2022 and is an international interdisciplinary conference that presents a spectrum of scientific research on all aspects of informatics and intelligent systems technologies and applications

International Conference on Innovative Computing and Communications Siddhartha Bhattacharyya,Aboul Ella Hassanien,Deepak Gupta,Ashish Khanna,Indrajit Pan,2018-11-19 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

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