

High Resolution Wireless Surveillance Cameras

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Building the Internet of Things with IPv6 and MIPv6 CRC Press

This 2-volume set of books, comprising over 2,700 total pages, presents 325 fully original presentations on recent advances in structural health monitoring, as applied to commercial and military aircraft (manned and unmanned), high-rise buildings, wind turbines, civil infrastructure, power plants and ships. One general theme of the books is how SHM can be used for condition-based maintenance, with the goal of developing prediction-based systems, designed to save money over the life of vehicles and structures. A second theme centers on technologies for developing systems comprising sensors, diagnostic data and decision-making, with a focus on intelligent materials able to respond to damage and in some cases repair it. Finally the books discuss the relation among data, data interpretation and decision-making in managing a wide variety of complex structures and vehicles. More recent technologies discussed in the books include SHM and environmental effects, energy harvesting, non-contact sensing, and intelligent networks. Material in these books was first presented in September, 2011 at a conference held at Stanford University and sponsored by the Air Force Office of Scientific Research, the Army Research Office, the Office of Naval Research and the National Science Foundation. Some of the highlights of the books include: SHM technologies for condition-based maintenance (CBM) and predictive maintenance Verification, validation, qualification, data mining, prognostics systems for decision-making

Structural health, sensing and materials U.S. health care system. HRSA asked the IOM to focus on the potential for telehealth to serve geographically isolated individuals and extend the reach of scarce resources while also emphasizing the quality and value in the delivery of health care services. This workshop summary discusses the evolution of telehealth since 1996, including the increasing role of the private sector, policies that have promoted or delayed the use of telehealth, and consumer acceptance of telehealth. The Role of Telehealth in an Evolving Health Care Environment: Workshop Summary discusses the current evidence base for telehealth, including available data and gaps in data; discuss how technological developments, including mobile telehealth, electronic intensive care units, remote monitoring, social networking, and wearable devices, in conjunction with the push for electronic health records, is changing the delivery of health care in rural and urban environments. This report also summarizes actions that the U.S. Department of Health and Human Services (HHS) can undertake to further the use of telehealth to improve health care outcomes while controlling costs in the current health care environment.

Intelligent Video Surveillance
Artech House

An investigative journalist offers a revealing look at how the government, private companies, and criminals use technology to indiscriminately sweep up vast amounts of our personal data, and discusses results from a number of experiments she conducted to try and protect herself.

Structural Health Monitoring 2011 BoD – Books on Demand

In 1996, the Institute of Medicine (IOM) released its report *Telemedicine: A Guide to Assessing Telecommunications for Health Care*. In that report, the IOM Committee on Evaluating Clinical Applications of Telemedicine found telemedicine is similar in most respects to other technologies for which better evidence of effectiveness is also being demanded. Telemedicine, however, has some special characteristics-shared with information technologies generally-that warrant particular notice from evaluators and decision makers. Since that time, attention to telehealth has continued to grow in both the public and private sectors. Peer-reviewed journals and professional societies are devoted to telehealth, the federal government provides grant funding to promote the use of telehealth, and the private technology industry continues to develop new applications for telehealth. However, barriers remain to the use of telehealth modalities, including issues related to reimbursement, licensure, workforce, and costs. Also, some areas of telehealth have developed a stronger evidence base than others. The Health Resources and Service Administration (HRSA) sponsored the IOM in holding a workshop in Washington, DC, on August 8-9 2012, to examine how the use of telehealth technology can fit into the

U.S. health care system. HRSA asked the IOM to focus on the potential for telehealth to serve geographically isolated individuals and extend the reach of scarce resources while also emphasizing the quality and value in the delivery of health care services. This workshop summary discusses the evolution of telehealth since 1996, including the increasing role of the private sector, policies that have promoted or delayed the use of telehealth, and consumer acceptance of telehealth. The Role of Telehealth in an Evolving Health Care Environment: Workshop Summary discusses the current evidence base for telehealth, including available data and gaps in data; discuss how technological developments, including mobile telehealth, electronic intensive care units, remote monitoring, social networking, and wearable devices, in conjunction with the push for electronic health records, is changing the delivery of health care in rural and urban environments. This report also summarizes actions that the U.S. Department of Health and Human Services (HHS) can undertake to further the use of telehealth to improve health care outcomes while controlling costs in the current health care environment.

3D and HD Broadband Video Networking

John Wiley & Sons

Everything You Need to Know About Identity Theft, Credit Cards, Credit Repair, and Credit Reports "The author substitutes straight talk for legal mumbo-jumbo in 50 Ways to Protect Your Identity and Your Credit. Reading this book is like getting a black belt in consumer self-defense." –Jim Bohannon, host of The Jim Bohannon Show "Identity theft is among the fastest-growing problems facing Americans today. This book will help you learn all you need to know to protect your lives, money, and security. Consider it your first stop in your quest for knowledge and guidance to prevent ID theft." –Robert Powell, Editor of CBSMarketWatch "As one who has lived through some of the nightmare scenarios discussed by the author, I believe "Steve's Rules" (Chapter 14) need to be placed in a prominent place so you can see them any time you think you are safe. They may be the new practical commandments for financial survival." –Doug Stephan, host of the Good

Daynationally syndicated radio show "Detecting and stopping identity thieves is imperative to protecting your finances and financial reputation. Steve Weisman shows you how to protect yourself and what steps to take if you are victimized. This is a must-read for anyone with a bank account and a credit card!"
—Bonnie Bleidt, Boston Stock Exchange Reporter, CBS4 Boston, Host of Early Exchange, WBIX Don't be a victim! Save your identity, save your credit—and save a fortune! 10,000,000 Americans had their identities stolen last year—don't be the next! Discover easy steps you can take now to reduce your vulnerability. Recognize "phishing" and other identity scams—online and off. Learn what you must do immediately if you've been attacked. Defend yourself against credit rip-offs, and stop paying more than you have to! It's all here: simple rules, handy checklists, even easy-to-use form letters! © Copyright Pearson Education. All rights reserved.

Dragnet Nation CRC Press

Privacy-invading technologies (PITs) such as Body scanners; Public space CCTV microphones; Public space CCTV loudspeakers and Human-implantable microchips (RFID implants/GPS implants) are dealt with in this book. The book shows how and why laws that regulate the design and development of privacy-invading technologies (PITs) may more effectively ensure the protection of privacy than laws that only regulate data controllers and the use of such technologies. The premise is supported and demonstrated through a discussion on these four specific PITs as case studies. In doing so, the book overall attempts to explain how laws/regulations that mandate the implementation of Privacy by Design (PBD) could potentially serve as a viable approach for collectively safeguarding privacy, liberty and security in the 21st Century. This book will be of interest to academic researchers, law practitioners, policy makers and technology researchers.

Popular Mechanics Cambridge University Press

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Privacy-Invading Technologies and Privacy by Design Morgan Kaufmann

Earth Day celebrates our beautiful planet and calls us to act on its behalf. Some people spend the day planting flowers or trees. Others organize neighborhood clean-ups, go on nature walks or make recycled crafts. Readers will discover how a shared holiday can have multiple traditions and be celebrated in all sorts of ways.

Geoscience and Remote Sensing CRC Press

Remote Sensing is collecting and interpreting information on targets without being in physical contact with the objects. Aircraft, satellites ...etc are the major

platforms for remote sensing observations. Unlike electrical, magnetic and gravity surveys that measure force fields, remote sensing technology is commonly referred to methods that employ electromagnetic energy as radio waves, light and heat as the means of detecting and measuring target characteristics. Geoscience is a study of nature world from the core of the earth, to the depths of oceans and to the outer space. This branch of study can help mitigate volcanic eruptions, floods, landslides ... etc terrible human life disaster and help develop ground water, mineral ores, fossil fuels and construction materials. Also, it studies physical, chemical reactions to understand the distribution of the nature resources. Therefore, the geoscience encompass earth, atmospheric, oceanography, pedology, petrology, mineralogy, hydrology and geology. This book covers latest and futuristic developments in remote sensing novel theory and applications by numerous scholars, researchers and experts. It is organized into 26 excellent chapters which include optical and infrared modeling, microwave scattering propagation, forests and vegetation, soils, ocean temperature, geographic information, object classification, data mining, image processing, passive optical sensor, multispectral and hyperspectral sensing, lidar, radiometer instruments, calibration, active microwave and SAR processing. Last but not the least, this book presented chapters that highlight frontier works in remote sensing information processing. I am very pleased to have leaders in the field to prepare and contribute their most current research and development work. Although no attempt is made to cover every topic in remote sensing and geoscience, these entire 26 remote sensing technology chapters shall give readers a good insight. All topics listed are equal important and significant.

GE CCTV Camera BoD – Books on Demand Effective Surveillance for Homeland Security: Balancing Technology and Social Issues provides a comprehensive survey of state-of-the-art methods and tools for the surveillance and protection of citizens and critical infrastructures against natural and deliberate threats. Focusing on current technological challenges involving multi-disciplinary problem analysis and systems engineering approaches, it provides an overview of the most relevant aspects of surveillance systems in the framework of homeland security. Addressing both advanced surveillance technologies and the related socio-ethical issues, the book consists of 21 chapters written by international experts from the various sectors of homeland security. Part I, Surveillance and Society, focuses on the societal dimension of surveillance—stressing the importance of societal acceptability as a

precondition to any surveillance system. Part II, Physical and Cyber Surveillance, presents advanced technologies for surveillance. It considers developing technologies that are part of a framework whose aim is to move from a simple collection and storage of information toward proactive systems that are able to fuse several information sources to detect relevant events in their early incipient phase. Part III, Technologies for Homeland Security, considers relevant applications of surveillance systems in the framework of homeland security. It presents real-world case studies of how innovative technologies can be used to effectively improve the security of sensitive areas without violating the rights of the people involved. Examining cutting-edge research topics, the book provides you with a comprehensive understanding of the technological, legislative, organizational, and management issues related to surveillance. With a specific focus on privacy, it presents innovative solutions to many of the issues that remain in the quest to balance security with the preservation of privacy that society demands. Smart Cities and Homes Artech House Nonlinear problems in flight control have stimulated cooperation among engineers and scientists from a range of disciplines. Developments in computer technology allowed for numerical solutions of nonlinear control problems, while industrial recognition and applications of nonlinear mathematical models in solving technological problems is increasing. The aim of the book Advances in Flight Control Systems is to bring together reputable researchers from different countries in order to provide a comprehensive coverage of advanced and modern topics in flight control not yet reflected by other books. This product comprises 14 contributions submitted by 38 authors from 11 different countries and areas. It covers most of the currents main streams of flight control researches, ranging from adaptive flight control mechanism, fault tolerant flight control, acceleration based flight control, helicopter flight control, comparison of flight control systems and fundamentals. According to these themes the contributions are grouped in six categories, corresponding to six parts of the book. Security DEStech Publications, Inc "If we had computers that knew everything there was to know about things using data they gathered without any help from us we would be able to track and count everything, and greatly reduce waste, loss, and cost. We would know when things needed replacing, repairing or recalling, and whether they were fresh or past their best. The Internet of Things has the potential to change the world, just as the Internet did. Maybe even more so." Kevin Ashton, originator of the term, Internet of Things An examination of the concept and

unimagined potential unleashed by the Internet of Things (IoT) with IPv6 and MIPv6 What is the Internet of Things? How can it help my organization? What is the cost of deploying such a system? What are the security implications? Building the Internet of Things with IPv6 and MIPv6: The Evolving World of M2M Communications answers these questions and many more. This essential book explains the concept and potential that the IoT presents, from mobile applications that allow home appliances to be programmed remotely, to solutions in manufacturing and energy conservation. It features a tutorial for implementing the IoT using IPv6 and Mobile IPv6 and offers complete chapter coverage that explains: What is the Internet of Things? Internet of Things definitions and frameworks Internet of Things application examples Fundamental IoT mechanisms and key technologies Evolving IoT standards Layer 1/2 connectivity: wireless technologies for the IoT Layer 3 connectivity: IPv6 technologies for the IoT IPv6 over low power WPAN (6lowpan) Easily accessible, applicable, and not overly technical, Building the Internet of Things with IPv6 and MIPv6 is an important resource for Internet and ISP providers, telecommunications companies, wireless providers, logistics professionals, and engineers in equipment development, as well as graduate students in computer science and computer engineering courses. 50 Ways to Protect Your Identity and Your Credit Macmillan Ensuring reliable communication is an important concern in short-range wireless communication systems with stringent quality of service requirements. Key characteristics of these systems, including data rate, communication range, channel profiles, network topologies and power efficiency, are very different from those in long-range systems. This comprehensive book classifies short-range wireless technologies as high and low data rate systems. It addresses major factors affecting reliability at different layers of the protocol stack, detailing the best ways to enhance the capacity and performance of short-range wireless systems. Particular emphasis is placed on reliable channel estimation, state-of-the-art interference mitigation techniques and cooperative communications for improved reliability. The book also provides detailed coverage of related international standards including UWB, ZigBee, and 60 GHz communications. With a balanced treatment of theoretical and practical aspects of short-range wireless communications and with a focus on reliability, this is an ideal resource for practitioners and researchers in wireless communications.

The Smarthome Book Springer Science & Business Media Surface acoustic wave (SAW) devices are recognized for their versatility and efficiency in controlling and processing electrical signals. This has resulted in a multitude of device concepts for a wide range of signal processing functions, such as delay lines, filters, resonators, pulse compressors, convolvers, and many more. As SAW technology has found its way into mass market products such as TV receivers, pagers, keyless entry systems and cellular phones, the production volume has risen to millions of devices produced every day. At the other end of the scale, there are specialized high performance signal processing SAW devices for satellite communication and military applications, such as radar and electronic warfare. This volume, together with Volume 2, presents an overview of recent advances in SAW technology, systems and applications by some of the foremost researchers in this exciting field. High-Quality Visual Experience Liveright Publishing Achieve the Best Camera Design: Up-to-Date Information on MCMs Miniature camera modules (MCMs), such as webcams, have rapidly become ubiquitous in our day-to-day devices, from mobile phones to interactive TV systems. MCMs- or "smart" cameras-can zoom, adjust their frame rate automatically with illumination change, focus at different distances, compen Industrial Communication Systems Alexandr Lytkin Singapore's leading tech magazine gives its readers the power to decide with its informative articles and in-depth reviews. HWM Elsevier Last few years have seen rapid acceptance of high-definition television (HDTV) technology around the world. This technology has been hugely successful in delivering more realistic television experience at home and accurate imaging for professional applications. Adoption of high definition continues to grow as consumers demand enhanced features and greater quality of content. Following this trend, natural evolution of visualisation technologies will be in the direction of fully realistic visual experience and highly precise imaging. However, using the content of even higher resolution and quality is not straightforward as such videos require significantly higher access bandwidth and more processing power. Therefore, methods for radical reduction of video bandwidth are crucial for realisation of high visual quality. Moreover, it is desirable to look into other ways of accessing visual content, solution to which lies in innovative

schemes for content delivery and consumption. This book presents selected chapters covering technologies that will enable greater flexibility in video content representation and allow users to access content from any device and to interact with it. IP Video Surveillance. An Essential Guide. Andrew Howe Technology is playing an increasingly more important part in our homes as well as our day to day lives. Get this simple to read guide to be introduced to structured wiring and smarthome concepts. It will not only take you through the requirements necessary to implement these upgrades but also provide a long list of inspirational and useful ideas to help make your smarthome upgrade not only a reality but fun! Through the chapters of this book we cover the various topics and components which will provide an insight into upgrading your home and making it smart. Considering a renovation or a new build? Then look no further, as this will detail the basics of home cinema, whole house audio and video systems, security with remote monitoring, energy efficiency and how best to set up your data network, all wrapped up in an easy to read format, with easily laid out diagrams and a glossary of terms and links at the end to further your quest. Consider how long people spend deciding what flooring to lay down or what tiles to place in the kitchen or bathroom. Now consider how long people spend on what type of cabling will allow them to have that cool minimalist look in their renovation! Those hidden wires, the intelligent lighting, the surround sound, the energy efficient heating. Read this book before speaking to your electrician or installer. Save yourself time and money by being prepared. HWM Pearson Education The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive

information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

The Computer Engineering Handbook
Raintree

An Introduction to Digital Photomicrography is written for the hobbyist and the neophyte who wants to take pictures through the microscope. The book includes a description of the parts of the microscope; how to use adjust lighting; types of digital cameras; controls for adjusting digital cameras; choosing a video camera and controls for videography. An introductory guide for the hobbyist who wants to take pictures through the microscope, fully illustrated with 88 colour photographs.

An Introduction to Digital Photomicrography
Elsevier

The goal of Intelligent video surveillance systems is to efficiently extract useful information from a considerable number of videos collected by surveillance cameras by automatically detecting, tracking and recognizing objects of interest, and understanding and analyzing their activities. Video surveillance has a huge amount of applications, from public to private places. These applications require monitoring indoor and outdoor scenes. Nowadays, there are a considerable number of digital surveillance cameras collecting a huge amount of data on a daily basis. Researchers are urged to develop intelligent systems to efficiently extract and visualize useful information from this big data source. The exponential effort on the development of new algorithms and systems for video surveillance is confirmed by the amount of effort invested in projects and companies, the creation on new startups worldwide and, not less important, in the quantity and quality of the manuscripts published in a considerable number of journals and conferences worldwide. This book is an outcome of research done by several researchers who have highly contributed to the field of Video Surveillance. The main goal is to present recent advances in this important topic for the Image Processing community.