Disappearing Cryptography Second Edition Information Hiding Steganography Watermarking The Morgan Kaufmann Series In Software Engineering And Programming

Digital Rights Management for E-Commerce Systems
Digital Watermarking for Digital Media
Information and Communications Security
Technology, Society, and Compromises
Digital Watermarking and Steganography
Disappearing Cryptography
Visual Content Processing and Representation
Cyber Forensics
Applied Parallel Computing
The Future of Intellectual Property in the Information Age
Concepts, Methodologies, Tools, and Applications
Data Privacy and Security
Exposing Cryptovirology
Information Security and Ethics: Concepts, Methodologies, Tools, and Applications
Information Hiding
Coding for Data and Computer Communications
Emergent Strategies for E-Business Processes, Services and Implications: Advancing Corporate Frameworks
Second International Workshop, IWDW 2003, Seoul, Korea, October 20-22, 2003, Revised Papers
Information Hiding : Steganography & Watermarking
10th International Workshop, IH 2008, Sana Barbara, CA, USA, May 19-21, 2008, Revised Selected Papers
Second International Conference, Iciar 2005, Toronto, Canada, September 28-30, 2005, Proceedings
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National Conference on Frontiers in Applied and Computational Mathematics (FACM-2005)
7th International Workshop, IH 2005, Barcelona, Spain, June 6-8, 2005, Revised Selected Papers
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A Field Manual for Collecting, Examining, and Preserving Evidence of Computer Crimes, Second Edition
A Textbook for Students and Practitioners
March 04-05, 2005
An Introduction to Mathematical Cryptography
Introduction to Modern Cryptography, Second Edition

BATES ANGEL

Digital Rights Management for E-Commerce Systems Springer Science & Business Media
Covering classical cryptography, modern cryptography, and steganography, this volume details how data can be kept secure and private. Each topic is presented and explained by describing various methods, techniques, and algorithms. Moreover, there are numerous helpful examples to reinforce the reader's understanding and expertise with these techniques and methodologies. Features & Benefits: * Incorporates both data encryption and data hiding * Supplies a wealth of exercises and solutions to help readers readily understand the material * Presents information in an accessible, nonmathematical style * Concentrates on specific methodologies that readers can choose from and pursue, for their data-security needs and goals * Describes new topics, such as the advanced encryption standard (Rijndael), quantum cryptography, and elliptic-curve cryptography. The book, with its accessible style, is an essential companion for all security practitioners and professionals who need to understand and effectively use both information hiding and encryption to protect digital data and communications. It is also suitable for self-study in the areas of programming, software engineering, and security.
Digital Watermarking for Digital Media IGI Global

Integration of IoT (Internet of Things) with big data and cloud computing has brought forward numerous advantages and challenges such as data analytics, integration, and storage. This book highlights these challenges and provides an integrating framework for these technologies, illustrating the role of blockchain in all possible facets of IoT security. Furthermore, it investigates the security and privacy issues associated with various IoT systems along with exploring various machine learning-based IoT security solutions. This book brings together state-of-the-art innovations, research activities (both in academia and in industry), and the corresponding standardization impacts of 5G as well. Aimed at graduate students, researchers in computer science and engineering, communication networking, IoT, machine learning and pattern recognition, this book Showcases the basics of both IoT and various security paradigms supporting IoT, including Blockchain Explores various machine learning-based IoT security solutions and highlights the importance of IoT for industries and smart cities Presents various competitive technologies of Blockchain, especially concerned with IoT security Provides insights into the taxonomy of challenges, issues, and research directions in IoT-based applications Includes examples and illustrations to effectively demonstrate the principles, algorithm, applications, and practices of security in the IoT environment

Information and Communications Security Springer Science & Business Media

Cryptography is now ubiquitous – moving beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES), block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI). Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book’s website offers slides, projects and links to further resources. This is a suitable textbook for graduate and advanced undergraduate courses and also for self-study by engineers.

Technology, Society, and Compromises CRC Press

This book constitutes the thoroughly refereed postproceedings of the 9th International Workshop on Visual Content Processing and Representation, VLBV 2005. The 28 revised full papers presented together with 4 panel summaries were selected from 85 submissions during two rounds of reviewing and revision. The papers address all current issues in visual content processing techniques such as video and image analysis, representation and coding, communications and delivery, consumption, synthesis, protection, and adaptation.

Digital Watermarking and Steganography Oxford University Press

Whether you're new to the field or looking to broaden your knowledge of contemporary cryptography, this newly revised edition of an Artech House classic puts all aspects of this important topic into perspective. Delivering an accurate introduction to the current state-of-the-art in modern cryptography, the book offers you an in-depth understanding of essential tools and applications to help you with your daily work. The second edition has been reorganized and expanded, providing mathematical fundamentals and important cryptography principles in the appropriate appendixes, rather than summarized at the beginning of the book. Now you find all the details you need to fully master the material in the relevant sections. This allows you to quickly delve into the practical information you need for your projects. Covering unkeyed, secret key, and public key cryptosystems, this authoritative reference gives you solid working knowledge of the latest and most critical concepts, techniques, and systems in contemporary cryptography. Additionally, the book is supported with over 720 equations, more than 60 illustrations, and numerous time-saving URLs that connect you to websites with related information.

V. Nagaraj

From the world's most renowned security technologist, Bruce Schneier, this 20th Anniversary Edition is the most definitive reference on cryptography ever published and is the seminal work on cryptography. Cryptographic techniques have applications far beyond the obvious uses of encoding and decoding information. For developers who need to know about capabilities, such as digital signatures, that depend on cryptographic techniques, there's no better overview than Applied Cryptography, the definitive book on the subject. Bruce Schneier covers general classes of cryptographic protocols and then specific techniques, detailing the inner workings of real-world cryptographic algorithms including the Data Encryption Standard and RSA public-key cryptosystems. The book includes source-code listings and extensive advice on the practical aspects of cryptography implementation, such as the importance of generating truly random numbers and of keeping keys secure. ". . .the best introduction to cryptography I've ever seen. . . .The book the National Security Agency wanted never to be published. . . ." -Wired Magazine ". . .monumental . . . fascinating . . . comprehensive . . . the definitive work on cryptography for computer programmers . . ." -Dr. Dobb's Journal ". . .easily ranks as one of the most authoritative in its field." -PC Magazine The book details how programmers and electronic communications professionals can use cryptography-the technique of enciphering and deciphering messages-to maintain the privacy of computer data. It describes dozens of cryptography algorithms, gives practical advice on how to implement them into cryptographic software, and shows how they can be used to solve security problems. The book shows programmers who design computer applications, networks, and storage systems how they can build security into their software and systems. With a new Introduction by the author, this premium edition will be a keepsake for all those committed to computer and cyber security.

Disappearing Cryptography Springer

From officially sanctioned, high-tech operations to budget spy cameras and cell phone video, this updated and expanded edition of a bestselling handbook reflects the rapid and significant growth of the surveillance industry. The Handbook of Surveillance Technologies, Third Edition is the only comprehensive work to chronicle

the background and current applications of the full-range of surveillance technologies—offering the latest in surveillance and privacy issues. Cutting-Edge—updates its bestselling predecessor with discussions on social media, GPS circuits in cell phones and PDAs, new GIS systems, Google street-viewing technology, satellite surveillance, sonar and biometric surveillance systems, and emerging developments Comprehensive—from sonar and biometric surveillance systems to satellites, it describes spy devices, legislation, and privacy issues—from their historical origins to current applications—including recent controversies and changes in the structure of the intelligence community at home and abroad Modular—chapters can be read in any order—browse as a professional reference on an as-needed basis—or use as a text forSurveillance Studies courses Using a narrative style and more than 950 illustrations, this handbook will help journalists/newscasters, privacy organizations, and civic planners grasp technical aspects while also providing professional-level information for surveillance studies, sociology and political science educators, law enforcement personnel, and forensic trainees. It includes extensive resource information for further study at the end of each chapter. Covers the full spectrum of surveillance systems, including: Radar • Sonar • RF/ID • Satellite • Ultraviolet • Infrared • Biometric • Genetic • Animal • Biochemical • Computer • Wiretapping • Audio • Cryptologic • Chemical • Biological • X-Ray • Magnetic

Visual Content Processing and Representation Morgan Kaufmann Presents information on how to analyze risks to your networks and the steps needed to select and deploy the appropriate countermeasures to reduce your exposure to physical and network threats. Also imparts the skills and knowledge needed to identify and counter some fundamental security risks and requirements, including Internet security threats and measures (audit trails IP sniffing/spoofing etc.) and how to implement security policies and procedures. In addition, this book covers security and network design with respect to particular vulnerabilities and threats. It also covers risk assessment and mitigation and auditing and testing of security systems as well as application standards and technologies required to build secure VPNs, configure client software and server operating systems, IPsec-enabled routers, firewalls and SSL clients. This comprehensive book will provide essential knowledge and skills needed to select, design and deploy a public key infrastructure (PKI) to secure existing and future applications. * Chapters contributed by leaders in the field cover theory and practice of computer security technology, allowing the reader to develop a new level of technical expertise * Comprehensive and up-to-date coverage of security issues facilitates learning and allows the reader to remain current and fully informed from multiple viewpoints * Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Cyber Forensics TECHNO FORUM R&D CENTRE

Steganography is the art of hiding and transmitting data through apparently innocuous carriers in an effort to conceal the existence of the secret data. The Least Significant Bit (LSB) steganography that replaces the least significant bits of the host medium is a widely used technique with low computational complexity and high insertion capacity. Although it has good perceptual transparency, it is vulnerable to steganalysis which is based on statistical analysis. Many other steganography algorithms have been developed such as Discrete Cosine Transform (DCT), Discrete Wavelet Transform (DWT) and Spread Spectrum Embedding. But the insertion capacities for all the above methods were not satisfied. Therefore, developing new steganography algorithms against statistical analysis seems to be the prime requirement in steganography. The LSB insertion method is the most common and easiest method for embedding messages in an image with high capacity. However, it is detectable by statistical analysis such as RS and Chisquare analysis. Hence, researchers are still in look out for steganography techniques with enhanced insertion capacity of secret data along with greater security and which can resist attacks. In this work, in order to enhance the embedding capacity of secret data four techniques for secret communication have been proposed. They are classified into two categories. In first category, cryptography is used along with steganography to enhance the security, while in second category only steganography is used. In the first category, two improved LSB substitution techniques have been proposed. The first technique is known as Zigzag Modulo Substitution Method in which embedding locations are Sequence based. The second technique is known as Random Modulo Substitution Method using Random Technique in LSB Steganography and user key based LSB substitution steganography for RGB images where in, RSA algorithm is used for encryption. The techniques under the first category are exclusively LSB array based. The first LSB array based technique embeds message bits into LSB arrays of cover image by using zigzag scanning. On the other hand the Random Modulo Substitution Method embeds secret data into the different locations of cover image by using pseudo random index generator. Moreover, both these LSB array based techniques use RSA algorithm to enhance security. Histogram and Statistical analysis performed on the stego image proved that the proposed techniques can effectively resist steganalysis. Comparison of the statistical parameters like Root Mean Square (RMS), Peak Signal to Noise Ratio (PSNR) and Structural Similarity Index Matrix (SSIM) for the proposed techniques with cover image and stego image was carried out and analyzed. The Second category includes pixel value modification method and pixel value differencing method in which the embedding decision for a target pixel is taken by random technique. Data hiding by using pixel value modification with modulus function in color images guarantees that no pixel value will exceed the range 0 to 255 in stego image. In the existing PVD embedding methods, only one secret digit was embedded for two consecutive pixels, but the proposed method embeds one secret digit in only one pixel. Proposed method on color images gives more capacity and security than the PVD methods. It also provides better visual quality of stego image. Moreover, proposed method extracts the hidden secret message efficiently without using the range tables. In existing steganography algorithms like Pixel Value Differencing (PVD) methods, the secret data are embedded into the differences of adjacent pixels. This pair wise modification mechanism in cover image increases the histogram distortion.

Applied Parallel Computing Disappearing CryptographyInformation Hiding : Steganography & Watermarking Hackers have uncovered the dark side of cryptography—thatdevice developed to defeat Trojan horses, viruses, password theft,and other cyber-crime. It’s called cryptovirology, the art ofturning the very methods designed to protect your data into a meansof subverting it. In this fascinating, disturbing volume, theexperts who first identified cryptovirology show you exactly whatyou’re up against and how to fight back. They will take you inside the brilliant and devious mind of

ahacker—as much an addict as the vacant-eyed denizen of thecrackhouse—so you can feel the rush and recognize youropponent’s power. Then, they will arm you for thecounterattack. This book reads like a futuristic fantasy, but be assured, thethreat is ominously real. Vigilance is essential, now. Understand the mechanics of computationally secure informationstealing Learn how non-zero sum Game Theory is used to developsurvivable malware Discover how hackers use public key cryptography to mountextortion attacks Recognize and combat the danger of kleptographic attacks onsmart-card devices Build a strong arsenal against a cryptovirology attack

The Future of Intellectual Property in the Information Age ABC-CLIO
As information technology is rapidly progressing, an enormous amount of media can be easily exchanged through Internet and other communication networks. Increasing amounts of digital image, video, and music have created numerous information security issues and is now taken as one of the top research and development agendas for researchers, organizations, and governments worldwide. Multimedia Forensics and Security provides an in-depth treatment of advancements in the emerging field of multimedia forensics and security by tackling challenging issues such as digital watermarking for copyright protection, digital fingerprinting for transaction tracking, and digital camera source identification.

Concepts, Methodologies, Tools, and Applications Springer Science & Business Media
Watermarking techniques involve the concealment of information withina text or images and the transmission of this information to thereceiver with minimum distortion. This is a very new area ofresearch. The techniques will have a significant effect on defence, business, copyright protection and other fields where informationneeds to be protected at all costs from attackers.This book presents the recent advances in the theory andimplementation of watermarking techniques. It brings together, for thefirst time, the successful applications of intelligent paradigms(including comparisons with conventional methods) in many areas. Theaccompanying CD-Rom provides readers with source codes and executablesto put into practice general topics in watermarking

Data Privacy and Security Springer
This book constitutes the refereed proceedings of the 7th International Conference on Applied Parallel Computing, PARA 2004, held in June 2004. The 118 revised full papers presented together with five invited lectures and 15 contributed talks were carefully reviewed and selected for inclusion in the proceedings. The papers are organized in topical sections.

Exposing Cryptovirology Springer
This book constitutes the refereed proceedings of the Second International Conference on Image Analysis and Recognition, ICIAR 2005, held in Toronto, Canada, in September 2005.The 153 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 295 submissions. The papers are organized in topical sections on image segmentation, image and video processing and analysis, image and video coding, shape and matching, image description and recognition, image retrieval and indexing, 3D imaging, morphology, colour analysis, texture analysis, motion analysis, tracking, biomedical applications, face recognition and biometrics, image secret sharing, single-sensor imaging, and real-time imaging.

Information Security and Ethics: Concepts, Methodologies, Tools, and Applications Springer Science & Business Media
We are happy to present to you the proceedings of the 2nd International Workshop on Digital Watermarking, IWDW 2003. Since its modern re-appearance in the academic community in the early 1990s, great progress has been made in understanding both the capabilities and the weaknesses of digital watermarking. On the theoretical side, we all are now well aware of the fact that digital waterma- ing is best viewed as a form of communication using side information. In the case of digital watermarking the side information in question is the document to be wat- marked. This insight has led to a better understanding of the limits of the capacity and robustness of digital watermarking algorithms. It has also led to new and improved watermarking algorithms, both in terms of capacity and imperceptibility. Similarly, the role of human perception, and models thereof, has been greatly enhanced in the study and design of digital watermarking algorithms and systems. On the practical side, applications of watermarking are not yet abundant. The original euphoria on the role of digital watermarking in copy protection and copyright prot- tion has not resulted in widespread usage in practical systems. With hindsight, a n- ber of reasons can be given for this lack of practical applications.

Information Hiding Springer
The bestselling first edition of "Disappearing Cryptography" was known as the best introduction to information hiding. This fully revised and expanded second edition describes a number of different techniques that people can use to hide information, such as encryption.

Coding for Data and Computer Communications World Scientific
This book intends to provide a comprehensive overview on different aspects of mechanisms and techniques for information security. It is written for students, researchers, and professionals studying in the field of multimedia security and steganography. Multimedia security and steganography is especially relevant due to the global scale of digital multimedia and the rapid growth of the Internet. Digital watermarking technology can be used to guarantee authenticity and can be applied as proof that the content has not been altered since insertion. Updated techniques and advances in watermarking are explored in this new edition. The combinational spatial and frequency domains watermarking technique provides a new concept of enlarging the embedding capacity of watermarks. The genetic algorithm (GA) based watermarking technique solves the rounding error problem and provide an efficient embedding approach. Each chapter provides the reader with a fundamental, theoretical framework, while developing the extensive advanced techniques and considering the essential principles of the digital watermarking and steganographic systems. Several robust algorithms that are presented throughout illustrate the framework and provide assistance and tools in understanding and implementing the fundamental principles.

Emergent Strategies for E-Business Processes, Services and Implications: Advancing Corporate Frameworks CRC Press
The world of Internet law is constantly changing and is difficult to follow, even for those for whom doing so is a full-time job. This updated, everything-you-need-to-know reference removes the uncertainty. • Explains complex legal and technical concepts clearly and understandably through entries that range from 500 to 5,000 words • Covers a wide range of topics, including censorship, copyright, domain name disputes, file-sharing, hacking, patents, spam, malware, international law, tax issues, trademarks, and viruses • Features an introductory guide to the U.S. legal system, including how to find, read, and understand sources of law • Includes cases, statutes, and

international treaties relevant to the law of information technology and the Internet
Second International Workshop, IWDW 2003, Seoul, Korea, October 20-22, 2003, Revised Papers IGI Global
Parallel and distributed computing is one of the foremost technologies for shaping future research and development activities in academia and industry. Hyperthreading in Intel processors, hypertransport links in next generation AMD processors, multicore silicon in today’s high-end microprocessors, and emerging cluster and grid computing have moved parallel/distributed computing into the mainstream of computing. New Horizons of Parallel and Distributed Computing is a collection of self-contained chapters written by pioneering researchers to provide solutions for newly emerging problems in this field. This volume will not only provide novel ideas, work in progress and state-of-the-art techniques in the field, but will also stimulate future research activities in the area of parallel and distributed computing with applications. New Horizons of Parallel and Distributed Computing is intended for industry researchers and developers, as well as for academic researchers and advanced-level students in computer science and electrical engineering. A valuable reference work, it is also suitable as a textbook.
Information Hiding : Steganography & Watermarking IGI Global
"This book presents a collection of research associated with the emerging e-business technologies and applications, attempting to stimulate the advancement of various e-business frameworks and applications, and to provide future research directions"--Provided by publisher.

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