

Watermarking

Joachim Eggers, Bernd Girod

Informed Watermarking Joachim Eggers,Bernd Girod,2012-12-06 This book deals with digital watermarking, which is defined by the authors of this book as the art of hiding auxiliary information in digital data in a secure, robust and imperceptible fashion. Digital watermarking as a topic has a long history, but before 1995 publications in scientific literature were almost absent. From 1995 onwards however the number of publications on watermarking has been steadily increasing. Today a number of workshops and conferences on this topic exist; also a number of scientific journals on watermarking have been published. This renewed scientific interest in digital watermarking has led very quickly to industrial interest, as well. In 1996 the Copy Protection Technical Working Group, a voluntary consortium consisting of the movie industry, the IT industry and the consumer electronics industry, issued a call for watermarking technologies for the purpose of copy protection of DVD-Video. A few years later the Secure Digital Music Initiative issued a similar call, in this case focusing on copy protection of digital music. These two efforts have been only partially successful: copy protection based on digital watermarking is not (yet) implemented on a large scale in any type of consumer device. This current failure of watermarking, to live up to its expectations, finds its cause in a large number of reasons, ranging from legal considerations and system aspects to the relative immaturity of watermarking as a technology.

Digital Watermarking for Digital Media Juergen Seitz,2005-01-01 The book discusses new aspects of digital watermarking in a worldwide context--Provided by publisher.

Digital Watermarking and Steganography Ingemar Cox,Matthew Miller,Jeffrey Bloom,Jessica Fridrich,Ton Kalker,2007-11-23 Digital audio, video, images, and documents are flying through cyberspace to their respective owners. Unfortunately, along the way, individuals may choose to intervene and take this content for themselves. Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken. The many techniques of digital watermarking (embedding a code) and steganography (hiding information) continue to evolve as applications that necessitate them do the same. The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well-received edition. Steganography and steganalysis (the art of detecting hidden information) have been added to a robust treatment of digital watermarking, as many in each field research and deal with the other. New material includes watermarking with side information, QIM, and dirty-paper codes. The revision and inclusion of

new material by these influential authors has created a must-own book for anyone in this profession. This new edition now contains essential information on steganalysis and steganography. New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications.

Intelligent Watermarking Techniques Hsiang-Cheh Huang, Jeng-Shyang Pan, L. C. Jain, 2004

Watermarking techniques involve the concealment of information within a text or images and the transmission of this information to the receiver with minimum distortion. This is a very new area of research. The techniques will have a significant effect on defence, business, copyright protection and other fields where information needs to be protected at all costs from attackers. This book presents the recent advances in the theory and implementation of watermarking techniques. It brings together, for the first time, the successful applications of intelligent paradigms (including comparisons with conventional methods) in many areas. The accompanying CD-Rom provides readers with source codes and executables to put into practice general topics in watermarking.

Innovations in Digital Watermarking Techniques Feng-Hsing Wang, 2009-09-21

Information security and copyright protection are more important today than before. Digital watermarking is one of the widely used techniques used in the world in the area of information security. This book introduces a number of digital watermarking techniques and is divided into four parts. The first part introduces the importance of watermarking techniques and intelligent technology. The second part includes a number of watermarking techniques. The third part includes the hybrid watermarking techniques and the final part presents conclusions. This book is directed to students, professors, researchers and application engineers who are interested in the area of information security.

Digital Watermarking Ingemar Cox, Matthew Miller, Jeffrey Bloom, Mathew Miller, 2001-10-17

Digital watermarking is a key ingredient to copyright protection. It provides a solution to illegal copying of digital material and has many other useful applications such as broadcast monitoring and the recording of electronic transactions. Now, for the first time, there is a book that focuses exclusively on this exciting technology. Digital Watermarking covers the crucial research findings in the field: it explains the principles underlying digital watermarking technologies, describes the requirements that have given rise to them, and discusses the diverse ends to which these technologies are being applied. As a result, additional groundwork is laid for future developments in this field, helping the reader understand and anticipate new approaches and applications. * Emphasizes the underlying watermarking principles that are relevant for all media: images, video, and audio. * Discusses a wide variety of applications,

theoretical principles, detection and embedding concepts and the key properties of digital watermarks--robustness, fidelity, data payload, and security * Examines copyright protection and many other applications, including broadcast monitoring, transaction tracking, authentication, copy control, and device control. * Presents a series of detailed examples called Investigations that illustrate key watermarking concepts and practices. * Includes an appendix in the book and on the web containing the source code for the examples. * Includes a comprehensive glossary of watermarking terminology

Information Hiding: Steganography and Watermarking-Attacks and Countermeasures Neil F.

Johnson,Zoran Duric,Sushil Jajodia,2012-12-06 Information Hiding: Steganography and Watermarking - Attacks and Countermeasures deals with information hiding. With the proliferation of multimedia on the Internet, information hiding addresses two areas of concern: privacy of information from surveillance (steganography) and protection of intellectual property (digital watermarking). Steganography (literally, covered writing) explores methods to hide the existence of hidden messages. These methods include invisible ink, microdot, digital signature, covert channel, and spread spectrum communication. Digital watermarks represent a commercial application of steganography. Watermarks can be used to track the copyright and ownership of electronic media. In this volume, the authors focus on techniques for hiding information in digital media. They analyze the hiding techniques to uncover their limitations. These limitations are employed to devise attacks against hidden information. The goal of these attacks is to expose the existence of a secret message or render a digital watermark unusable. In assessing these attacks, countermeasures are developed to assist in protecting digital watermarking systems. Understanding the limitations of the current methods will lead us to build more robust methods that can survive various manipulation and attacks. The more information that is placed in the public's reach on the Internet, the more owners of such information need to protect themselves from theft and false representation. Systems to analyze techniques for uncovering hidden information and recover seemingly destroyed information will be useful to law enforcement authorities in computer forensics and digital traffic analysis. Information Hiding: Steganography and Watermarking - Attacks and Countermeasures presents the authors' research contributions in three fundamental areas with respect to image-based steganography and watermarking: analysis of data hiding techniques, attacks against hidden information, and countermeasures to attacks against digital watermarks. Information Hiding: Steganography and Watermarking – Attacks and Countermeasures is suitable for a secondary text in a graduate level course, and as a reference for researchers and practitioners in industry.

Digital Watermarking Mohammad Ali Nematollahi,Chalee Vorakulpipat,Hamurabi Gamboa

Rosales,2016-08-08 This book presents the state-of-the-arts application of digital watermarking in audio, speech, image, video, 3D mesh graph, text, software, natural language, ontology, network stream, relational database, XML, and hardware IPs. It also presents new and recent algorithms in digital watermarking for copyright protection and discusses future trends in the field. Today, the illegal manipulation of genuine digital objects and products represents a considerable problem in the digital world. Offering an effective solution, digital watermarking can be applied to protect intellectual property, as well as fingerprinting, enhance the security and proof-of-authentication through unsecured channels.

Reversible Digital Watermarking Ruchira Naskar,Rajat Subhra Chakraborty,2014-02-01 Digital Watermarking is the art and science of embedding information in existing digital content for Digital Rights Management (DRM) and authentication. Reversible watermarking is a class of (fragile) digital watermarking that not only authenticates multimedia data content, but also helps to maintain perfect integrity of the original multimedia cover data. In non-reversible watermarking schemes, after embedding and extraction of the watermark, the cover data undergoes some distortions, although perceptually negligible in most cases. In contrast, in reversible watermarking, zero-distortion of the cover data is achieved, that is the cover data is guaranteed to be restored bit-by-bit. Such a feature is desirable when highly sensitive data is watermarked, e.g., in military, medical, and legal imaging applications. This work deals with development, analysis, and evaluation of state-of-the-art reversible watermarking techniques for digital images. In this work we establish the motivation for research on reversible watermarking using a couple of case studies with medical and military images. We present a detailed review of the state-of-the-art research in this field. We investigate the various subclasses of reversible watermarking algorithms, their operating principles, and computational complexities. Along with this, to give the readers an idea about the detailed working of a reversible watermarking scheme, we present a prediction-based reversible watermarking technique, recently published by us. We discuss the major issues and challenges behind implementation of reversible watermarking techniques, and recently proposed solutions for them. Finally, we provide an overview of some open problems and scope of work for future researchers in this area.

Multimedia Watermarking Techniques and Applications Darko Kirovski,2006-04-18 Intellectual property owners must continually exploit new ways of reproducing, distributing, and marketing their products. However, the threat of piracy looms as a major problem with digital distribution and storage technologies. Multimedia Watermarking Techniques and Applications covers all current and future trends in the design of modern

Digital Image Watermarking Surekha Borra,Rohit Thanki,Nilanjan Dey,2018-12-07 The Book presents an overview of newly developed watermarking techniques in various independent and hybrid domains Covers the basics of digital watermarking, its types, domain in which it is implemented and the application of machine learning algorithms onto digital watermarking Reviews hardware implementation of watermarking Discusses optimization problems and solutions in watermarking with a special focus on bio-inspired algorithms Includes a case study along with its MATLAB code and simulation results

Watermarking Systems Engineering Mauro Barni,Franco Bartolini,2004-02-03 The growth of the Internet has fueled the demand for enhanced watermarking and data hiding technologies and has stimulated research into new ways to implement watermarking systems in the real world. This book presents the principles of watermarking system design and discusses technologies in information concealment and recovery. It highlights the requirements and challenges of applications in security, image/video indexing, hidden communications, image captioning, and transmission error recovery and concealment. It explains digital watermarking technologies and offers an understanding of new approaches and applications, laying the groundwork for further developments in the field.

Watermarking Techniques for Copyright Protection of Videos Ashish M. Kothari,Vedvyas Dwivedi,Rohit M. Thanki,2018-06-22 The book provides copyright protection approaches for videos using watermarking. The various watermarking techniques using various transforms such as discrete cosine transform (DCT), discrete wavelet transform (DWT) and singular value decomposition (SVD) for videos are presented. The book also provides video watermarking approach using compressive sensing (CS) theory. The presented watermarking techniques are designed and implemented using color digital videos. The performance of the presented techniques is evaluated using Peak Signal to Noise Ratio (PSNR) and Normalized Correlation (NC).

Digital Watermarking and Steganography Frank Y. Shih,2017-12-19 Every day millions of people capture, store, transmit, and manipulate digital data. Unfortunately free access digital multimedia communication also provides virtually unprecedented opportunities to pirate copyrighted material. Providing the theoretical background needed to develop and implement advanced techniques and algorithms, *Digital Watermarking and Steganography*: Demonstrates how to develop and implement methods to guarantee the authenticity of digital media Explains the categorization of digital watermarking techniques based on characteristics as well as applications Presents cutting-edge techniques such as the GA-based breaking algorithm on the frequency-domain steganalytic system

The popularity of digital media continues to soar. The theoretical foundation presented within this valuable reference will facilitate the creation on new techniques and algorithms to combat present and potential threats against information security.

Techniques and Applications of Digital Watermarking and Content Protection Michael Konrad Arnold, Martin Schmucker, Stephen D. Wolthusen, 2003 Whether you need to quickly come up to speed on the state of the art in digital watermarking or want to explore the latest research in this area, such as 3-D geometry watermarking, this timely reference gives you the hands-on knowledge you need for your work. This book covers the full range of media -- still images, audio data, video, 3-D geometry data, formatted text, music scores, and program code -- that you can protect with digital watermarking.

Watermarking Mithun Das Gupta, 2012-05-16 This collection of books brings some of the latest developments in the field of watermarking. Researchers from varied background and expertise propose a remarkable collection of chapters to render this work an important piece of scientific research. The chapters deal with a gamut of fields where watermarking can be used to encode copyright information. The work also presents a wide array of algorithms ranging from intelligent bit replacement to more traditional methods like ICA. The current work is split into two books. Book one is more traditional in its approach dealing mostly with image watermarking applications. Book two deals with audio watermarking and describes an array of chapters on performance analysis of algorithms.

Color Image Watermarking Qingtang Su, 2016-12-05 This book presents watermarking algorithms derived from signal processing methods such as wavelet transform, matrix decomposition and cosine transform to address the limitations of current technologies. For each algorithm, mathematical foundations are explained with analysis conducted to evaluate performances on robustness and efficiency. Combining theories and practice, it is suitable for information security researchers and industrial engineers.

Digital Watermarking Techniques in Curvelet and Ridgelet Domain Channapragada Rama Seshagiri Rao, Munaga V.N.K. Prasad, 2016-05-20 This book describes the design, development, and testing of a novel digital watermarking technique for color images using Magic Square and Ridgelet transforms. The novel feature of the method is that it generates and uses multiple copies of the digital watermark. The book describes how the method was tested for embedding digital watermarks into color cover images, resulting in very high PSNR value and yielding comparable results with existing watermarking techniques. To reach this new method, eight different techniques are designed, developed and tested. First, the authors test two digital watermarking techniques based on encryption:

Image Watermark Using Complete Complementary Code Technique (CCCT) and Image Watermarking Using CCC-Fast Walsh Hadamard Transform Technique (CCC-FWHTT). Next, four digital watermarking techniques based on curvelet transforms are discussed: Image Watermarking Using Curvelet Transform (WCT), Watermark Wavelets in Curvelets of Cover Image (WWCT), Resized Watermark into Curvelets of Cover Image (RWCT), and Resized Watermark Wavelets into Curvelets of Cover Image (RWWCT). Then, two final techniques are presented: Image Watermarking Based on Magic Square (MST) and Image watermarking based on Magic Square and Ridgelet Transform (MSRTT). Future research directions are explored in the final chapter. Designed for professionals and researchers in computer graphics and imaging, *Digital Watermarking Techniques in Curvelet and Ridgelet Domain* is also a useful tool for advanced-level students.

Multimedia Watermarking Aditya Kumar Sahu,

Digital Watermarking Fabien Petitcolas, Hyoung Joong Kim, 2003-08-03 The 1st International Workshop on Digital Watermarking (IWDW), the conference covering all aspects of digital watermarking, was held at the Hotel Riviera situated along the beautiful Han River in Seoul, Korea from November 21 to 22, 2002. These proceedings contain 21 papers that were accepted for presentation at the conference. These papers were selected from 67 submissions including 3 invited papers. They went through a thorough review process by the Program Committee and were selected on the basis of excellence and novelty. The following is a brief description of the history of this conference and reviewing process: In August 2001 some members of the Special Interest Group on Multimedia Protection (SIGMP) of the Korea Institute of Information Security and Cryptology (KIISC) agreed to create the IWDW. In November 2001 we set up a Program Committee and solicited papers while asking Springer-Verlag to publish the proceedings of the workshop in their Lecture Notes in Computer Science series. In July 2002 we received 64 submissions from 14 countries using Microsoft's conference management site (<http://cmt.research.microsoft.com/iwdw2002/>). Each submission was assigned a number automatically by the conference management tool and the paper was sent to the Program Committee members for their review. We also encouraged different sets of experts to join for fair reviews.

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Table of Contents Watermarking

1. Understanding the eBook Watermarking
 - The Rise of Digital Reading Watermarking
 - Advantages of eBooks Over Traditional Books
2. Identifying Watermarking
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Watermarking
 - User-Friendly Interface
4. Exploring eBook Recommendations from Watermarking
 - Personalized Recommendations
 - Watermarking User Reviews and Ratings
 - Watermarking and Bestseller Lists
5. Accessing Watermarking Free and Paid eBooks
 - Watermarking Public Domain eBooks
 - Watermarking eBook Subscription Services
6. Navigating Watermarking eBook Formats
 - Watermarking Budget-Friendly Options
 - ePub, PDF, MOBI, and More
 - Watermarking Compatibility with Devices
 - Watermarking Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Watermarking
 - Highlighting and Note-Taking Watermarking
 - Interactive Elements Watermarking
8. Staying Engaged with Watermarking
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Watermarking
9. Balancing eBooks and Physical Books Watermarking
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Watermarking
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions

- Managing Screen Time

11. Cultivating a Reading Routine

Watermarking

- Setting Reading Goals Watermarking
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of

Watermarking

- Fact-Checking eBook Content of Watermarking
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Watermarking Introduction

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