

# DIGITAL WATERMARKING

INGEMAR J. COX MATTHEW L. MILLER JEFFREY A. BLOOM

# Digital Watermarking The Morgan Kaufmann Series In Multimedia Information And Systems

**Pranab Kumar Dhar, Tetsuya  
Shimamura**



## **Digital Watermarking The Morgan Kaufmann Series In Multimedia Information And Systems:**

*Techniques and Applications of Digital Watermarking and Content Protection* Michael Arnold, Martin Schmucker, Stephen D. Wolthusen, 2003 This informative new resource presents the first comprehensive treatment of silicon germanium heterojunction bipolar transistors SiGe HBTs It offers you a complete from the ground up understanding of SiGe HBT devices and technology from a very broad perspective The book covers motivation history materials fabrication device physics operational principles and circuit level properties associated with this new cutting edge semiconductor device technology Including over 400 equations and more than 300 illustrations this hands on reference shows you in clear and concise language how to design simulate fabricate and measure a SiGe HBT *Digital Watermarking* Ingemar J. Cox, 2002

**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 **Digital Watermarking** Ingemar Cox, Matthew Miller, Mathew Miller, Jeffrey Bloom, 2002 Applications and properties Models of watermarking Basic message coding Watermarking with side information Analyzing errors Using perceptual models Robust watermarking Watermark security Content authentication *Digital Watermarking* Ingemar J. Cox, Ton Kalker, Heung-Kyu Lee, 2005-02-09 We are happy to present to you the proceedings of the 3rd International Workshop on Digital Watermarking IWDW 2004 Since its modern reappearance 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 watermarking 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 watermarked 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 protection has not resulted in widespread use in practical systems With hindsight a number of reasons can be given for this lack of practical applications

*Digital Rights Management for E-Commerce Systems* Drossos, Lambros, Tsolis, Dimitrios, Sioutas, Spyros, Papatheodorou, Theodore, 2008-10-31 This book highlights innovative technologies used for the design and implementation of advanced e commerce systems facilitating digital rights management and protection Provided by publisher

*Multimedia Watermarking* Aditya Kumar Sahu, 2024-02-21 Multimedia watermarking is a key ingredient for integrity verification transaction tracking copyright protection authentication copy control and forgery detection This book provides an extensive survey from the fundamentals to cutting edge digital watermarking techniques One of the crucial aspects of multimedia security is the ability to detect forged tampered regions from the multimedia object In this book we emphasized how tampering detection localization and recovery of manipulated information not only limits but also eliminates the scope of unauthorized usage Finally this book provides the groundwork for understanding the role of intelligent machines and blockchain in achieving better security in multimedia watermarking Readers will find it easy to comprehend the wide variety of applications theoretical principles and effective solutions for protecting intellectual rights soon after reading this book

**Advances in Wavelet Theory and Their Applications in Engineering, Physics and Technology** Dumitru Baleanu, 2012-04-04 The use of the wavelet transform to analyze the behaviour of the complex systems from various fields started to be widely recognized and applied successfully during the last few decades In this book some advances in wavelet theory and their applications in engineering physics and technology are presented The applications were carefully selected and grouped in five main sections Signal Processing Electrical Systems Fault Diagnosis and Monitoring Image Processing and Applications in Engineering One of the key features of this book is that the wavelet concepts have been described from a point of view that is familiar to researchers from various branches of science and engineering The content of the book is accessible to a large number of readers

*Digital Watermarking* Anthony T. S. Ho, Yun Q. Shi, Hyoung-Joong Kim, Mauro Barni, 2009-08-17 This book constitutes the refereed proceedings of the 8th International Workshop IWDW 2009 held in Guildford Surrey UK August 24 26 2009 The 25 revised full papers including 4 poster presentations presented together with 3 invited papers were carefully reviewed and selected from 50 submissions The papers are organized in topical sections on robust watermarking video watermarking steganography and steganalysis multimedia watermarking and security protocols as well as image forensics and authentication

*Handbook of Research on Secure Multimedia Distribution* Lian, Shiguo, Zhang, Yan, 2009-03-31 This handbook is for both secure multimedia distribution researchers and also decision makers in obtaining a greater understanding of the concepts issues problems trends challenges and opportunities related to

secure multimedia distribution Provided by publisher      **E-commerce** Kyeong Kang, 2010-02-01 E commerce provides immense capability for connectivity through buying and selling activities all over the world During the last two decades new concepts of business have evolved due to popularity of the Internet providing new business opportunities for commercial organisations and they are being further influenced by user activities of newer applications of the Internet Business transactions are made possible through a combination of secure data processing networking technologies and interactivity functions Business models are also subjected to continuous external forces of technological evolution innovative solutions derived through competition creation of legal boundaries through legislation and social change The main purpose of this book is to provide the reader with a familiarity of the web based e commerce environment and position them to deal confidently with a competitive global business environment The book contains a numbers of case studies providing the reader with different perspectives in interface design technology usage quality measurement and performance aspects of developing web based e commerce

**Advanced Techniques in Multimedia Watermarking: Image, Video and Audio**

**Applications** Al-Haj, Ali Mohammad, 2010-05-31 This book introduces readers to state of art research in multimedia watermarking in the different disciplines of watermarking addressing the different aspects of advanced watermarking research modeling and theoretical analysis advanced embedding and extraction techniques software and hardware implementations and performance evaluations of watermarking systems Provided by publisher      **Advances in Audio**

**Watermarking Based on Matrix Decomposition** Pranab Kumar Dhar, Tetsuya Shimamura, 2019-04-23 This book introduces audio watermarking methods in transform domain based on matrix decomposition for copyright protection Chapter 1 discusses the application and properties of digital watermarking Chapter 2 proposes a blind lifting wavelet transform LWT based watermarking method using fast Walsh Hadamard transform FWHT and singular value decomposition SVD for audio copyright protection Chapter 3 presents a blind audio watermarking method based on LWT and QR decomposition QRD for audio copyright protection Chapter 4 introduces an audio watermarking algorithm based on FWHT and LU decomposition LUD Chapter 5 proposes an audio watermarking method based on LWT and Schur decomposition SD Chapter 6 explains in details on the challenges and future trends of audio watermarking in various application areas Introduces audio watermarking methods for copyright protection and ownership protection Describes watermarking methods with encryption and decryption that provide excellent performance in terms of imperceptibility robustness and data payload Discusses in details on the challenges and future research direction of audio watermarking in various application areas

**Advances in Audio Watermarking Based on Singular Value Decomposition** Pranab Kumar Dhar, Tetsuya Shimamura, 2015-03-30 This book introduces audio watermarking methods for copyright protection which has drawn extensive attention for securing digital data from unauthorized copying The book is divided into two parts First an audio watermarking method in discrete wavelet transform DWT and discrete cosine transform DCT domains using singular value

decomposition SVD and quantization is introduced This method is robust against various attacks and provides good imperceptible watermarked sounds Then an audio watermarking method in fast Fourier transform FFT domain using SVD and Cartesian polar transformation CPT is presented This method has high imperceptibility and high data payload and it provides good robustness against various attacks These techniques allow media owners to protect copyright and to show authenticity and ownership of their material in a variety of applications Features new methods of audio watermarking for copyright protection and ownership protection Outlines techniques that provide superior performance in terms of imperceptibility robustness and data payload Includes applications such as data authentication data indexing broadcast monitoring fingerprinting etc

**Interactive Multimedia Music Technologies** Ng, Kia, Nesi, Paolo, 2007-10-31 This book illustrates how interactive music can be used for valorizing cultural heritage content and archives not currently distributed due to lack of safety suitable coding or conversion technologies It explains new methods of promoting music for entertainment teaching commercial and non commercial purposes and provides new services for those connected via PCs mobile devices whether sighted or print impaired Provided by publisher

**SOME INVESTIGATIONS ON STEGANOGRAPHY TECHNIQUES** Dr. V. Nagaraj, 2021-05-20 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

Advances in Multimedia Modeling Tat-Jen Cham,Jianfei Cai,Chitra Dorai,Deepu Rajan,Tat-Seng Chua,Liang-Tien Chia,2006-12-22 The two volume set LNCS 4351 and LNCS 4352 constitutes the refereed proceedings of the 13th International Multimedia Modeling Conference MMM 2007 held in Singapore in January 2007 Based on rigorous reviewing the program committee selected 123 carefully revised full papers of the main technical sessions and 33 revised full papers of four special sessions from a total of 392 submissions for presentation in two volumes

Agent and Multi-Agent Systems: Technologies and Applications Adam Grzech,2007-07-07 This book constitutes the refereed proceedings of the First International Symposium on Agent and Multi Agent Systems Technologies and Applications KES AMSTA 2007 held in Wroclaw Poland in May June 2007 Coverage includes agent oriented Web applications mobility aspects of agent systems agents for network management agent approaches to robotic systems as well as intelligent and secure agents for digital content management

*Handbook of Research on Threat Detection and Countermeasures in Network Security* Al-Hamami, Alaa Hussein,Waleed al-Saadoon, Ghossoon M.,2014-10-31 Cyber attacks are rapidly becoming one of the most prevalent issues in the world As cyber crime continues to escalate it is imperative to explore new approaches and technologies that help ensure the security of the online community The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats Investigating the potential of current and emerging security technologies this publication is an all inclusive reference source for academicians researchers students professionals practitioners network analysts and technology specialists interested in the simulation and application of computer network protection

**Computational**

**Intelligence and Security** Yunping Wang, 2007-08-21 This book constitutes the thoroughly refereed post proceedings of the annual International Conference on Computational Intelligence and Security CIS 2006 held in Guangzhou China in November 2006 The 116 revised papers presented were carefully reviewed and selected from a total of 2078 initial submissions during two rounds of revision and improvement The papers are organized in topical sections on bio inspired computing evolutionary computation learning systems and multi agents cryptography information processing and intrusion detection systems and security image and signal processing as well as pattern recognition



## Reviewing **Digital Watermarking The Morgan Kaufmann Series In Multimedia Information And Systems**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Digital Watermarking The Morgan Kaufmann Series In Multimedia Information And Systems**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Digital Watermarking The Morgan Kaufmann Series In Multimedia Information And Systems Introduction**

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