

Digital Watermarking and Steganography

*FUNDAMENTALS
AND TECHNIQUES*

Frank Y. Shih



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Digital Watermarking And Steganography Fundamentals And Techniques

Frank Y. Shih



Digital Watermarking And Steganography Fundamentals And Techniques:

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 *Digital Watermarking and Steganography* Frank Y.

Shih, 2017-04-10 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

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 *Steganography Techniques for Digital Images* Abid Yahya,2018-06-12 This book covers newly developed and novel Steganography techniques and algorithms The book outlines techniques to provide security to a variety of applications using Steganography with the goal of both hindering an adversary from decoding a hidden message and also preventing an adversary from suspecting the existence of covert communications The book looks into applying these newly designed and improved algorithms to provide a new and efficient Steganographic system called Characteristic Region Based Image Steganography CR BIS The algorithms combine both the robustness of the Speeded Up Robust Features technique SURF and Discrete Wavelet Transform DWT to achieve characteristic region Steganography synchronization The book also touches on how to avoid hiding data in the whole image by dynamically selecting characteristic regions for the process of embedding Applies and discusses innovative techniques for hiding text in a digital image file or even using it as a key to the encryption Provides a variety of methods to achieve characteristic region Steganography synchronization Shows how Steganography improves upon cryptography by using obscurity features

Handbook of Communications Security F. Garzia,2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way *Advanced Techniques for Audio Watermarking* Rohit M. Thanki,2019-07-26 This book provides information on digital audio watermarking its applications and its evaluation for copyright protection of audio signals both basic and advanced The author covers various advanced digital audio watermarking algorithms that can be used for copyright protection of audio signals These algorithms are implemented using hybridization of advanced signal processing transforms such as fast discrete curvelet transform FDCuT redundant discrete wavelet transform RDWT and another signal processing transform such as discrete cosine transform DCT In these algorithms Arnold scrambling is used to enhance the security of the watermark logo This book is divided in to three portions basic audio watermarking and its classification audio watermarking algorithms and audio watermarking algorithms using advance signal transforms The book also covers optimization based audio watermarking Describes basic of digital audio

watermarking and its applications including evaluation parameters for digital audio watermarking algorithms Provides audio watermarking algorithms using advanced signal transformations Provides optimization based audio watermarking algorithms

Multibiometric Watermarking with Compressive Sensing Theory Rohit M. Thanki,Vedvyas J. Dwivedi,Komal R. Borisagar,2018-01-02 This book presents multibiometric watermarking techniques for security of biometric data This book also covers transform domain multibiometric watermarking techniques and their advantages and limitations The authors have developed novel watermarking techniques with a combination of Compressive Sensing CS theory for the security of biometric data at the system database of the biometric system The authors show how these techniques offer higher robustness authenticity better imperceptibility increased payload capacity and secure biometric watermarks They show how to use the CS theory for the security of biometric watermarks before embedding into the host biometric data The suggested methods may find potential applications in the security of biometric data at various banking applications access control of laboratories nuclear power stations military base and airports

Handbook of Multimedia Information Security: Techniques and Applications Amit Kumar Singh,Anand Mohan,2019-07-19 This handbook is organized under three major parts The first part of this handbook deals with multimedia security for emerging applications The chapters include basic concepts of multimedia tools and applications biological and behavioral biometrics effective multimedia encryption and secure watermarking techniques for emerging applications an adaptive face identification approach for android mobile devices and multimedia using chaotic and perceptual hashing function The second part of this handbook focuses on multimedia processing for various potential applications The chapter includes a detail survey of image processing based automated glaucoma detection techniques and role of de noising recent study of dictionary learning based image reconstruction techniques for analyzing the big medical data brief introduction of quantum image processing and it applications a segmentation less efficient Alzheimer detection approach object recognition image enhancements and de noising techniques for emerging applications improved performance of image compression approach and automated detection of eye related diseases using digital image processing The third part of this handbook introduces multimedia applications The chapter includes the extensive survey on the role of multimedia in medicine and multimedia forensics classification a finger based authentication system for e health security analysis of recently developed deep learning techniques for emotion and activity recognition Further the book introduce a case study on change of ECG according to time for user identification role of multimedia in big data cloud computing the Internet of things IoT and blockchain environment in detail for real life applications This handbook targets researchers policy makers programmers and industry professionals in creating new knowledge for developing efficient techniques framework for multimedia applications Advanced level students studying computer science specifically security and multimedia will find this book useful as a reference

Biometrics: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2016-08-30 Security and

authentication issues are surging to the forefront of the research realm in global society As technology continues to evolve individuals are finding it easier to infiltrate various forums and facilities where they can illegally obtain information and access By implementing biometric authentications to these forums users are able to prevent attacks on their privacy and security Biometrics Concepts Methodologies Tools and Applications is a multi volume publication highlighting critical topics related to access control user identification and surveillance technologies Featuring emergent research on the issues and challenges in security and privacy various forms of user authentication biometric applications to image processing and computer vision and security applications within the field this publication is an ideal reference source for researchers engineers technology developers students and security specialists *Multimedia Security* Frank Y. Shih, 2017-12-19

Multimedia Security Watermarking Steganography and Forensics outlines essential principles technical information and expert insights on multimedia security technology used to prove that content is authentic and has not been altered Illustrating the need for improved content security as the Internet and digital multimedia applications rapidly evolve this book presents a wealth of everyday protection application examples in fields including multimedia mining and classification digital watermarking steganography and digital forensics Giving readers an in depth overview of different aspects of information security mechanisms and methods this resource also serves as an instructional tool on how to use the fundamental theoretical framework required for the development of extensive advanced techniques The presentation of several robust algorithms illustrates this framework helping readers to quickly master and apply fundamental principles Presented case studies cover The execution and feasibility of techniques used to discover hidden knowledge by applying multimedia duplicate mining methods to large multimedia content Different types of image steganographic schemes based on vector quantization Techniques used to detect changes in human motion behavior and to classify different types of small group motion behavior Useful for students researchers and professionals this book consists of a variety of technical tutorials that offer an abundance of graphs and examples to powerfully convey the principles of multimedia security and steganography Imparting the extensive experience of the contributors this approach simplifies problems helping readers more easily understand even the most complicated theories It also enables them to uncover novel concepts involved in the implementation of algorithms which can lead to the discovery of new problems and new means of solving them

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