

# 1. Introduction

- For reversible data hiding, both the hidden data and the original multimedia content can be extracted
- we employ the reversible data hiding techniques to hide the information to be mosaicked in advance.

# Multimedia Data Hiding Multimedia Data Hiding

Yun Q. Shi

# Multimedia Data Hiding Multimedia Data Hiding:

Intelligent Multimedia Data Hiding Hsiang-Cheh Huang, Wai-Chi Fang, 2007-04-25 This book lays out all the latest research in the area of multimedia data hiding The book introduces multimedia signal processing and information hiding techniques It includes multimedia representation digital watermarking fundamentals and requirements of watermarking It moves on to cover the recent advances in multimedia signal processing before presenting information hiding techniques including steganography secret sharing and watermarking The final part of this book includes practical applications of intelligent multimedia signal processing and data hiding systems Multimedia Data Hiding Min Wu, Bede Liu, 2003-01-14 Comprehensive coverage of an important and current hot topic Details both theoretical as well as practical aspects Presents new data hiding algorithms for images and videos Reveals a number of attacks and countermeasures for data hiding systems with a focus on digital music **Data Hiding** Michael T. Raggo, Chet Hosmer, 2012-12-31 As data hiding detection and forensic techniques have matured people are creating more advanced stealth methods for spying corporate espionage terrorism and cyber warfare all to avoid detection Data Hiding provides an exploration into the present day and next generation of tools and techniques used in covert communications advanced malware methods and data concealment tactics The hiding techniques outlined include the latest technologies including mobile devices multimedia virtualization and others These concepts provide corporate government and military personnel with the knowledge to investigate and defend against insider threats spy techniques espionage advanced malware and secret communications By understanding the plethora of threats you will gain an understanding of the methods to defend oneself from these threats through detection investigation mitigation and prevention Provides many real world examples of data concealment on the latest technologies including iOS Android VMware MacOS X Linux and Windows 7 Dives deep into the less known approaches to data hiding covert communications and advanced malware Includes never before published information about next generation methods of data hiding Outlines a well defined methodology for countering threats Looks ahead at future predictions for data hiding

Multimedia Information Hiding Technologies and Methodologies for Controlling Data Kondo,

Kazuhiro,2012-10-31 The widespread use of high speed networks has made the global distribution of digital media contents readily available in an instant As a result data hiding was created in an attempt to control the distribution of these copies by verifying or tracking the media signals picked up from copyright information such as the author or distributor ID Multimedia Information Hiding Technologies and Methodologies for Controlling Data presents the latest methods and research results in the emerging field of Multimedia Information Hiding MIH This comprehensive collection is beneficial to all researchers and engineers working globally in this field and aims to inspire new graduate level students as they explore this promising field

<u>Multimedia Data Hiding</u> Min Wu,Bede Liu,2013-03-19 The digital information revolution has brought about profound changes in our society and our life New devices and powerful software have made it possible for consumers worldwide to

create manipulate share and enjoy the multimedia information Internet and wireless networks offer ubiquitous channels to deliver and to exchange multimedia information for such pur poses as remote collaboration distant learning and entertainment With all these advances in multimedia coding and communication technologies over the past decade the major hurdle for allowing much broader access of multimedia assets and deployment of multimedia services no longer lies with bandwidth related issues but with how to make sure that content is used for its intended purpose by its intended recipients. The core issue then be comes the development of secure management of content usage and delivery across communication networks. Data hiding and digital watermarking are promising new technologies for multimedia information protection and rights management. Secondary data can be embedded imperceptibly in digital multimedia signals for a variety of applications including ownership protection authentication access con trol and annotation. Data hiding can also be used to send side information in multimedia communication for providing additional functionalities or for enhancing performance. The extraction of the embedded data mayor may not need knowledge of the original host media data. In addition to im perceptibility robustness against moderate processing such as compression is also an important consideration.

Transactions on Data Hiding and Multimedia Security I ,2006-10-28 This inaugural issue of the LNCS Transactions on Data Hiding and Multimedia Security contains five papers dealing with a wide range of topics related to multimedia security from a survey of problems related to watermark security to an introduction to the concept of Personal Entertainment Domains PED in Digital Rights Management DRM schemes Data Hiding Fundamentals and Applications Husrev T. Sencar, Mahalingam Ramkumar, Ali N. Akansu, 2004-08-20 Multimedia technologies are becoming more sophisticated enabling the Internet to accommodate a rapidly growing audience with a full range of services and efficient delivery methods Although the Internet now puts communication education commerce and socialization at our finger tips its rapid growth has raised some weighty security concerns with respect to multimedia content The owners of this content face enormous challenges in safeguarding their intellectual property while still exploiting the Internet as an important resource for commerce Data Hiding Fundamentals and Applications focuses on the theory and state of the art applications of content security and data hiding in digital multimedia One of the pillars of content security solutions is the imperceptible insertion of information into multimedia data for security purposes the idea is that this inserted information will allow detection of unauthorized usage Provides a theoretical framework for data hiding in a signal processing context Realistic applications in secure multimedia delivery Compression robust data hiding Data hiding for proof of ownership WATERMARKING Data hiding algorithms for image and video watermarking Coding and Data Hiding for Multimedia Bin Zhu,1999 Multimedia Data Hiding Kaushal M. Solanki, 2005 The rapid growth in the demand and consumption of the digital multimedia content in the past decade has led to some valid concerns over issues such as content security authenticity and digital rights management Multimedia data hiding defined as imperceptible embedding of information into a multimedia host provides

potential solutions but with many technological challenges In this thesis we address several fundamental issues in this field which provide the framework for the design of practical techniques that can seamlessly be deployed in real world Transactions on Data Hiding and Multimedia Security VI Yun O. Shi,2011-11-09 Since the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results This issue consists mainly of a special section on content protection and forensics including four papers The additional paper deals with histogram based image hashing for searching content Study on Data Hiding and Multimedia Data Communication Tirtha Sankar Das, Subir Kumar preserving copies Sarkar, 2011-08 The ease of accessibility of digital media and the simplicity of the digital systems has rendered the contents over the digital media highly insecure Thus content owners are eagerly seeking technologies having potential to protect their rights Thus the question of copyright associated with a digital entity for multimedia communication faces a severe threat from hackers Engineers have accepted this challenge in a gallant way Many data hiding techniques have been devised to protect the copyright of digital entities. The technique of digital watermarking is one of the growing fields in which this problem of copyright has been addressed elegantly Transactions on Data Hiding and Multimedia Security IV Yun Q. Shi,2009-07-24 Since the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results This fourth issue contains five contributions in the area of digital watermarking The first three papers deal with robust watermarking The fourth paper introduces a new least distortion linear gain model for halftone image watermarking and the fifth contribution presents an optimal histogram pair based image reversible data hiding scheme Transactions on Data Hiding and Multimedia Security X Yun Q. Shi, 2015-04-16 Since the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting

steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results The six papers included in this issue deal with watermarking security perceptual image hashing infrared hiding steganography and Transactions on Data Hiding and Multimedia Security X Yun Q. Shi, 2015 Since the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results The six papers included in this issue deal with watermarking security perceptual image hashing infrared hiding steganography and steganalysis Transactions on Data Hiding and Multimedia Security III Yun Q. Shi,2008-05-30 LNCS Transactions on Data Hiding and Multimedia Security provides a forum for all researchers in these emerging fields publishing both original and archival research results This third issue covers steganography and digital watermarking Data Hiding in Multimedia - Theory and Applications Mahalingam Ramkumar, 2000 Multimedia data hiding or steganography is a means of communication using subliminal channels. The resource for the subliminal communication scheme is the distortion of the original content that can be tolerated This thesis addresses two main issues of steganographic communication schemes 1 How does one maximize the distortion introduced without affecting fidelity of the content 2 How does one efficiently utilize the resource the distortion introduced for communicating as many bits of information as possible In other words what is a good signaling strategy for the subliminal communication scheme Close to optimal solutions for both issues are analyzed Many techniques for the issue for maximizing the resource viz the distortion introduced imperceptibly in images and video frames are proposed Different signaling strategies for steganographic communication are explored and a novel signaling technique employing a floating signal constellation is proposed Algorithms for optimal choices of the parameters of the signaling technique are presented Other application specific issues like the type of robustness needed are taken into consideration along with the established theoretical background to design optimal data hiding schemes In particular two very important applications of data hiding are addressed data hiding for multimedia content delivery and data hiding for watermarking for proving ownership A robust watermarking protocol for unambiguous resolution of ownership is

proposed Aspects of Network and Information Security Evangelos Kranakis, Evgueni Haroutunian, Elisa Shahbazian, 2008 Understanding network vulnerabilities in order to protect networks from external and internal threats is vital to the world's economy and should be given the highest priority. This volume discusses topics such as network security Transactions on Data Hiding and Multimedia Security VII Yun Qing Shi, 2012-03-05 Since information security and coding the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results The 7 papers included in this issue deal with the following topics protection of digital videos secure watermarking tamper detection and steganography **Transactions on Data Hiding** and Multimedia Security VIII Yun Q. Shi,2012-07-06 Since the mid 1990s data hiding has been proposed as an enabling technology for securing multimedia communication and is now used in various applications including broadcast monitoring movie fingerprinting steganography video indexing and retrieval and image authentication Data hiding and cryptographic techniques are often combined to complement each other thus triggering the development of a new research field of multimedia security Besides two related disciplines steganalysis and data forensics are increasingly attracting researchers and becoming another new research field of multimedia security This journal LNCS Transactions on Data Hiding and Multimedia Security aims to be a forum for all researchers in these emerging fields publishing both original and archival research results This special issue contains five selected papers that were presented at the Workshop on Pattern Recognition for IT Security held in Darmstadt Germany in September 2010 in conjunction with the 32nd Annual Symposium of the German Association for Pattern Recognition DAGM 2010 It demonstrates the broad range of security related topics that utilize graphical data The contributions explore the security and reliability of biometric data the power of machine learning methods to differentiate forged images from originals the effectiveness of modern watermark embedding schemes and the use of information fusion in steganalysis Data Hiding and Its Applications David Meg'1as, Wojciech Mazurczyk, Minoru Kuribayashi,2022-01-21 Data hiding techniques have been widely used to provide copyright protection data integrity covert communication non repudiation and authentication among other applications. In the context of the increased dissemination and distribution of multimedia content over the internet data hiding methods such as digital watermarking and steganography are becoming increasingly relevant in providing multimedia security. The goal of this book is to focus on the improvement of data hiding algorithms and their different applications both traditional and emerging bringing together

researchers and practitioners from different research fields including data hiding signal processing cryptography and information theory among others

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through Multimedia Data Hiding Multimedia Data Hiding

In some sort of inundated with monitors and the cacophony of fast conversation, the profound power and emotional resonance of verbal art often diminish in to obscurity, eclipsed by the regular barrage of noise and distractions. However, set within the lyrical pages of **Multimedia Data Hiding Multimedia Data Hiding**, a captivating function of literary beauty that impulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this exciting opus books viewers on a mental odyssey, lightly exposing the latent possible and profound affect stuck within the complex web of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect their captivating writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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