Multimedia Data Hiding / Digital Watermarking

- **What is it?**
  - Example: Picture in picture, words in words
  - It is "Steganography"
  - Secondary information in perceptual digital media data

- **Why hide information?**
  - Convey information without an additional channel
  - Hidden data is tied to content: Can be made difficult to separate data from content.
  - Covert communication: Adversary does not know it is there!

Multimedia Data Hiding

Frank Y. Shih

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 goverment 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 Data Hiding 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

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   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   **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 applications   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   **Coding and Data Hiding for Multimedia** Bin Zhu,1999   **Study on Data Hiding and Multimedia Data Communication** Tirtha Sankar Das,Subir Kumar 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 VI Yun Q. 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 preserving copies   **Multimedia Data Hiding** Min Wu,Bede Liu,2014-01-15   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 *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 steganalysis 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 **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 VIII* Yun Q. Shi,2012-07-30 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 *Multimedia Security 1* William Puech,2022-03-15 Today more than 80% of the data transmitted over networks and archived on our computers tablets cell phones or clouds is multimedia data images videos audio 3D data The applications of this data range from video games to healthcare and include computer aided design video surveillance and biometrics It is becoming increasingly urgent to secure this data not only during transmission and archiving but also during its retrieval and use Indeed in today s all digital world it is becoming ever easier to copy data view it unrightfully steal it or falsify it Multimedia Security 1 analyzes the issues of the authentication of multimedia data code and the embedding of hidden data both from the point of view of defense and attack Regarding the embedding of hidden data it also covers invisibility color tracing and 3D data as well as the detection of hidden messages in an image by steganalysis

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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