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# Data Hiding Fundamentals And Applications Content Security In Digital Multimedia

**Ljupco Kocarev, Zbigniew  
Galias, Shiguo Lian**



## **Data Hiding Fundamentals And Applications Content Security In Digital Multimedia:**

**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. **Aspects of Network and Information Security** NATO Science for Peace and Security Programme, IOS Press, 2008-06-24. Network security is concerned with creating a secure inter connected network that is designed so that on the one hand users cannot perform actions that they are not allowed to perform but on the other hand can perform the actions that they are allowed to. Network security not only involves specifying and implementing a security policy that describes access control but also implementing an Intrusion Detection System as a tool for detecting attempted attacks or intrusions by crackers or automated attack tools and identifying security breaches such as incoming shellcode, viruses, worms, malware, and trojan horses transmitted via a computer system or network. Today's computer infrastructure is exposed to several kinds of security threats ranging from virus attacks, unauthorized data access, sniffing, and password cracking. 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. Computer and network security involves many important and complicated issues and this gathering of scientists will help not only in raising awareness but also in teaching participants the state of the art of security techniques. Topics in network security, information security, and coding are discussed in this volume. **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

**Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics** Atulya Nagar,Durga Prasad Mohapatra,Nabendu Chaki,2015-10-07 Advanced Computing Networking and Informatics are three distinct and mutually exclusive disciplines of knowledge with no apparent sharing overlap among them However their convergence is observed in many real world applications including cyber security internet banking healthcare sensor networks cognitive radio pervasive computing amidst many others This two volume proceedings explore the combined

use of Advanced Computing and Informatics in the next generation wireless networks and security signal and image processing ontology and human computer interfaces HCI The two volumes together include 132 scholarly articles which have been accepted for presentation from over 550 submissions in the Third International Conference on Advanced Computing Networking and Informatics 2015 held in Bhubaneswar India during June 23 25 2015      **Handbook of Database Security**

Michael Gertz, Sushil Jajodia, 2007-12-03 Handbook of Database Security Applications and Trends provides an up to date overview of data security models techniques and architectures in a variety of data management applications and settings In addition to providing an overview of data security in different application settings this book includes an outline for future research directions within the field The book is designed for industry practitioners and researchers and is also suitable for advanced level students in computer science      **Digital Audio Watermarking Techniques and Technologies:**

**Applications and Benchmarks** Cvejic, Nedeljko, Seppänen, Tapio, 2007-08-31 Presents digital audio watermarking as a new and alternative method to enforce intellectual property rights and protect digital audio from tampering Provides theoretical frameworks recent research findings and practical applications      Multimedia Information Retrieval and Management David

Feng, W.C. Siu, Hong Jiang Zhang, 2013-04-17 Multimedia information technologies which provide comprehensive and intuitive information for a broad range of applications have a strong impact on modern life and have changed our way of learning and thinking Over the past two decades there has been an explosive growth in the use of digital multimedia including audio video images and graphics over the Internet and wireless communication As the use of digital multimedia increases effective data storage and management become increasingly important In fields which use large quantities of data e.g audio video image and digital libraries geographical and medical image databases etc we need to minimize the volume of data stored while meeting the often conflicting demand for accurate data representation In addition the data need to be managed such that it facilitates efficient searching browsing and cooperative work This area has been a very active research area in recent years This book will provide readers with an up to date and comprehensive picture of cutting edge technologies in multimedia information retrieval and management which directly affect our industry economy and social life The book is divided into two major parts Technological Fundamentals which covers the core theories of the area and Applications which describes the broad range of practical uses for this technology      **Digital-Forensics and**

**Watermarking** Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Ching-Nung Yang, 2015-06-24 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Digital Forensics and Watermarking IWDW 2014 held in Taipei Taiwan during October 2014 The 32 full and 14 poster papers presented together with 1 keynote speech were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on forensics watermarking reversible data hiding visual cryptography and steganography and steganalysis

*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 *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 **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

**Intelligent Computing Based on Chaos** Ljupco Kocarev, Zbigniew Galias, Shiguo Lian, 2009-02-03 Chaos is a fascinating phenomenon that has been observed in nature laboratory and has been applied in various real world applications Chaotic systems are deterministic with no random elements involved yet their behavior appears to be random Observations of chaotic behavior in nature include weather and climate the dynamics of satellites in the solar system the time evolution of the magnetic field of celestial bodies population growth in ecology to mention only a few examples Chaos has been observed in

the laboratory in a number of systems such as electrical circuits lasers chemical reactions fluid dynamics mechanical systems and magneto mechanical devices Chaotic behavior has also found numerous applications in electrical and communication engineering information and communication technologies biology and medicine To the best of our knowledge this is the first book edited on chaos applications in intelligent computing To access the latest research related to chaos applications in intelligent computing we launched the book project where researchers from all over the world provide the necessary coverage of the mentioned field The primary objective of this project was to assemble as much research coverage as possible related to the field by defining the latest innovative technologies and providing the most comprehensive list of research references

Library Journal, 2005      **Library Journal** Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 2005 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately

Multimedia Security Handbook Borko Furht, Darko Kirovski, 2004-12-28 Intellectual property owners who exploit new ways of reproducing distributing and marketing their creations digitally must also protect them from piracy Multimedia Security Handbook addresses multiple issues related to the protection of digital media including audio image and video content This volume examines leading edge multimedia security

*Transactions on Data Hiding and Multimedia Security I* Yun Q. Shi, 2006-10-26 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

**Fundamentals of Media Security** WeiQi Yan, Jonathan Weir, 2010      **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

Adaptive Mobile Computing Mauro Migliardi, Alessio Merlo, Sherenaz Al-HajBaddar, 2017-08-14 Adaptive Mobile Computing Advances in Processing Mobile Data Sets explores the latest advancements in producing processing and securing mobile data sets The book provides the elements needed to deepen understanding of this trend which over the last decade has seen exponential growth in the number and capabilities of mobile devices The pervasiveness sensing capabilities and computational power of mobile devices have turned them into a fundamental instrument in everyday life for a large part of the human population This fact makes mobile devices an incredibly rich source of data about the dynamics of human behavior a pervasive wireless sensors network with substantial computational power and an extremely appealing target for a new generation of threats Offers a coherent and realistic image of today's architectures techniques protocols components orchestration choreography and development related to mobile computing Explains state of the art technological solutions for the main issues hindering the development

of next generation pervasive systems including supporting components for collecting data intelligently handling resource and data management accounting for fault tolerance security monitoring and control addressing the relation with the Internet of Things and Big Data and depicting applications for pervasive context aware processing Presents the benefits of mobile computing and the development process of scientific and commercial applications and platforms to support them Familiarizes readers with the concepts and technologies that are successfully used in the implementation of pervasive ubiquitous systems

Digital Rights Management Reihaneh Safavi-Naini, 2006-06-30 This book constitutes the thoroughly refereed post proceedings of the First International Conference on Digital Rights Management Technology Issues Challenges and Systems DRMTICS 2005 held in Sydney Australia in October November 2005 Presents 26 carefully reviewed full papers organized in topical sections on assurance and authentication issues legal and related issues expressing rights and management watermarking software issues fingerprinting and image authentication supporting cryptographic technology P2P issues implementations and architectures



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