



DATA HIDING FUNDAMENTALS AND APPLICATIONS

Content Security in Digital Multimedia

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Data Hiding Fundamentals And Applications Content Security In Digital Multimedia

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Data Hiding Fundamentals And Applications Content Security In Digital Multimedia:

Data Hiding Fundamentals and Applications Husrev T. Sencar, Mahalingam Ramkumar, Ali N. Akansu, 2004-09-09

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. *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 Chi-square analysis. Hence, researchers are still looking 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 the first category, cryptography is used along with steganography to enhance the security, while in the 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

Aspects of Network and Information Security E. Kranakis, E. Haroutunian, E. Shahbazian, 2008-06-24

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 information security and coding

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

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

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 loss 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

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

Advancements in Forensic Analysis of Digital Images for Security and Law Enforcement Gupta, Gunjan, Goel, Neha, Rai, Mritunjay, Yadav, R.K., Bhatia, Sandeep, 2026-01-21 In the digital age images play a pivotal role in both criminal investigations and national security efforts Using these cutting edge techniques and technologies to authenticate analyze and interpret digital images for forensic purposes help with national security efforts With the rise of sophisticated image manipulation and deepfakes law enforcement and security professionals face growing challenges in distinguishing real evidence from fabricated content Using these modern tools and methodologies are transforming digital forensics and strengthening the integrity of investigative processes Advancements in Forensic Analysis of Digital Images for Security and Law Enforcement delves into cutting edge technologies for image authentication biometric watermarking and the integration of computer vision in criminal investigations It highlights real world applications in areas including digital evidence validation crime scene reconstruction and surveillance enhancement Covering topics such as blockchain forensics and surveillance footage this book is an excellent resource for designers and engineers law enforcement and security professionals educators postgraduate students researchers academicians and more

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** 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 *Security, Steganography, and Watermarking of Multimedia Contents*, 2005 **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 Transactions on Data Hiding and Multimedia Security ,2006 *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 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 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 **Sci-tech News** ,2005 Thông báo sách mới ,2009

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