
INFORMATION HIDING:

Steganography and Watermarking-

Attacks and Countermeasures

Information Hiding Steganography And Watermarking Attacks And Countermeasures

**Jeng-Shyang Pan, Hsiang-Cheh
Huang, Lakhmi C Jain, Yao Zhao**



Information Hiding Steganography And Watermarking Attacks And Countermeasures:

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Steganography literally covered writing explores methods to hide the existence of hidden messages These methods include invisible ink microdot digital signature covert channel and spread spectrum communication Digital watermarks represent a commercial application of steganography Watermarks can be used to track the copyright and ownership of electronic media In this volume the authors focus on techniques for hiding information in digital media They analyze the hiding techniques to uncover their limitations These limitations are employed to devise attacks against hidden information The goal of these attacks is to expose the existence of a secret message or render a digital watermark unusable In assessing these attacks countermeasures are developed to assist in protecting digital watermarking systems Understanding the limitations of the current methods will lead us to build more robust methods that can survive various manipulation and attacks The more information that is placed in the public s reach on the Internet the more owners of such information need to protect themselves from theft and false representation Systems to analyze techniques for uncovering hidden information and recover seemingly destroyed information will be useful to law enforcement authorities in computer forensics and digital traffic analysis Information Hiding Steganography and Watermarking Attacks and Countermeasures presents the authors research contributions in three fundamental areas with respect to image based steganography and watermarking analysis of data hiding techniques attacks against hidden information and countermeasures to attacks against digital watermarks Information Hiding Steganography and Watermarking Attacks and Countermeasures is suitable for a secondary text in a graduate level course and as a reference for researchers and practitioners in industry

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steganography and protection of intellectual property digital watermarking Steganography literally covered writing explores methods to hide the existence of hidden messages These methods include invisible ink microdot digital signature covert channel and spread spectrum communication Digital watermarks represent a commercial application of steganography Watermarks can be used to track the copyright and ownership of electronic media In this volume the authors focus on techniques for hiding information in digital media They analyze the hiding techniques to uncover their limitations These limitations are employed to devise attacks against hidden information The goal of these attacks is to expose the existence of a secret message or render a digital watermark unusable In assessing these attacks countermeasures are developed to assist in protecting digital watermarking systems Understanding the limitations of the current methods will lead us to build more robust methods that can survive various manipulation and attacks The more information that is placed in the public s reach on the Internet the more owners of such information need to protect themselves from theft and false representation Systems to analyze techniques for uncovering hidden information and recover seemingly destroyed information will be useful to law enforcement authorities in computer forensics and digital traffic analysis Information Hiding Steganography and Watermarking Attacks and Countermeasures presents the authors research contributions in three fundamental areas with respect to image based steganography and watermarking analysis of data hiding techniques attacks against hidden information and countermeasures to attacks against digital watermarks Information Hiding Steganography and Watermarking Attacks and Countermeasures is suitable for a secondary text in a graduate level course and as a reference for researchers and practitioners in industry

Multimedia Security: Steganography and Digital Watermarking Techniques for Protection of Intellectual Property Lu, Chun-Shien, 2004-07-31 Multimedia security has become a major research topic yielding numerous academic papers in addition to many watermarking related companies In this emerging area there are many challenging research issues that deserve sustained study towards an effective and practical system This book explores the myriad of issues regarding multimedia security including perceptual fidelity analysis image audio and 3D mesh object watermarking medical watermarking error detection authentication and concealment fingerprinting digital signature and digital right management

Information Hiding Fabien A. P. Petitcolas, 2003-01-21 This book constitutes the thoroughly refereed post proceedings of the 5th International Workshop on Information Hiding IH 2002 held in Noordwijkerhout The Netherlands in October 2002 The 27 revised full papers presented were carefully selected during two rounds of reviewing and revision from 78 submissions The papers are organized in topical sections on information hiding and networking anonymity fundamentals of watermarking watermarking algorithms attacks on watermarking algorithms steganography algorithms steganalysis and hiding information in unusual content

Schizophrenia My_____?!?! Being in the Know! , Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set John G. Voeller, 2010-04-12 The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources

designed to support the effective communication of homeland security research across all disciplines and institutional boundaries Truly a unique work this 4 volume set focuses on the science behind safety security and recovery from both man made and natural disasters has a broad scope and international focus The Handbook Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross disciplinary dialogue in this field between operational R D and consumer communities

Information Hiding Stefan Katzenbeisser,Ahmad-Reza Sadeghi,2009-09-23 This book constitutes the thoroughly refereed post workshop proceedings of the 11th International Workshop on Information Hiding IH 2009 held in Darmstadt Germany in June 2009 The 19 revised full papers presented were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on steganography steganalysis watermarking fingerprinting hiding in unusual content novel applications and forensics

Introduction to Forensic Tools Rohit Srivastava and Dharendra Kumar Sharma, This book is useful for newly motivated undergraduate students who want to explore new skills in forensic tool This book also used as best guide on Forensics with investigations using Open Source tools In this book all the procedures of basic Digital Forensics are discussed with the help of different tools and also Evidence based analysis is done using digital tools for the procurement of Open Source Methodologies Windows based tools are deployed on the Evidences to generate a variety of Evidence based analysis It also involves the different Attacks on the raw and processed data done during Investigations The tools deployed to detect the attacks along with the common and cutting edge forensic techniques for investigating a variety of target systems This book written by eminent professionals in the field presents the most cutting edge methods for examining and analyzing investigative evidence There are nine chapters total and they cover a wide variety of topics including the examination of Network logs Browsers and the Autopsy of different Firewalls The chapters also depict different attacks and their countermeasures including Steganography and Compression too Students and new researchers in the field who may not have the funds to constantly upgrade their toolkits will find this guide particularly useful Practitioners in the field of forensics such as those working on incident response teams or as computer forensic investigators as well as forensic technicians employed by law enforcement auditing companies and consulting firms will find this book useful

Recent Advances in Information Hiding and Applications Jeng-Shyang Pan,Hsiang-Cheh Huang,Lakhmi C Jain,Yao Zhao,2012-07-28 This research book presents a sample of recent advances in information hiding techniques and their applications It includes Image data hiding scheme based on vector quantization and image graph coloring The copyright protection system for Android platform Reversible data hiding ICA based image and video watermarking Content based invariant image watermarking Single bitmap block truncation coding of color images using cat swarm optimization Genetic based wavelet packet

watermarking for copyright protection Lossless text steganography in compression coding Fast and low distortion capacity acoustic synchronized acoustic to acoustic steganography scheme Video watermarking with shot detection *Intelligent Techniques in Signal Processing for Multimedia Security* Nilanjan Dey,V. Santhi,2016-10-18 This book proposes new algorithms to ensure secured communications and prevent unauthorized data exchange in secured multimedia systems Focusing on numerous applications algorithms and scenarios it offers an in depth analysis of data hiding technologies including watermarking cryptography encryption copy control and authentication The authors present a framework for visual data hiding technologies that resolves emerging problems of modern multimedia applications in several contexts including the medical healthcare education and wireless communication networking domains Further it introduces several intelligent security techniques with real time implementation As part of its comprehensive coverage the book discusses contemporary multimedia authentication and fingerprinting techniques while also proposing personal authentication recognition systems based on hand images surveillance system security using gait recognition face recognition under restricted constraints such as dry wet face conditions and three dimensional face identification using the approach developed here This book equips perception technology professionals with the latest technologies techniques and strategies for multimedia security systems offering a valuable resource for engineers and researchers working to develop security systems Security on the Web Marvin Zelkowitz,2011-07-08 Since its first volume in 1960 *Advances in Computers* has presented detailed coverage of innovations in computer hardware software theory design and applications It has also provided contributors with a medium in which they can explore their subjects in greater depth and breadth than journal articles usually allow As a result many articles have become standard references that continue to be of significant lasting value in this rapidly expanding field In depth surveys and tutorials on new computer technology Well known authors and researchers in the field Extensive bibliographies with most chapters Many of the volumes are devoted to single themes or subfields of computer science

Recent Developments in Computing and Its Applications M. Afshar Alam,Tamanna Siddiqui,K. R. Seeja,2009 This book comprises of 74 contributions from the experts covering the following topics Information Communication Technologies Network Technologies Wireless And Sensor Networks Soft Computing Circuits and Systems Software Engineering Data Mining Bioinformatics Data and Network Security *Enhanced Methods in Computer Security, Biometric and Artificial Intelligence Systems* Jerzy Pejas,Andrzej Piegat,2006-07-18 *Enhanced Methods in Computer Security Biometric and Artificial Intelligence Systems* contains over 30 contributions from leading European researchers showing the present state and future directions of computer science research *Methods of Artificial Intelligence and Intelligent Agents* contains 13 contributions analyzing such areas of AI as fuzzy set theory predicate logic neural networks clustering data mining and others It also presents applications of AI as possible solutions for problems like firm bankruptcy soil erosion flight control and others *Information Technology Security* covers three important areas of security engineering in information systems software

security public key infrastructure and the design of new cryptographic protocols and algorithms Biometric Systems comprises 11 contributions dealing with face picture analysis and recognition systems This chapter focuses on known methods of biometric problem solution as well as the design of new models *Spatial Data on the Web* Alberto Belussi, Barbara Catania, Eliseo Clementini, Elena Ferrari, 2007-08-15 Spatial data is essential in a wide range of application domains today While geographical applications remain the key target area spatial properties are required in other contexts such as computer aided design robotics and image processing Associated with these is the constantly growing number of distributed processing architectures based on for example grid systems sensor data networks and personalized smart devices *Spatial Data on the Web* links these two research streams focusing on the modeling and management of spatial data in distributed systems Belussi and his coeditors have structured the contributions from internationally renowned researchers into four parts Part I presents models for representing semistructured multiresolution and multiscale data Part II deals with the integration of spatial data sources Part III describes approaches to spatial data protection and finally Part IV reports innovative applications for mobile devices The book offers researchers in academia and industry an excellent overview of the state of the art in modeling and management of spatial data in distributed environments while it may also be the basis of specialized courses on Web based geographical information systems *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 *Proceedings of MAC-ETeL 2014* collective of authors, 2014-10-15 *Proceedings of Multidisciplinary Academic Conference on Education Teaching and E learning in Prague 2014* *Intelligent Interactive Multimedia Systems and Services* George A Tsihrintzis, Ernesto Damiani, Maria Virvou, 2010-07-15 KES International KES is a worldwide organisation that provides a professional community and association for researchers originally in the discipline of Knowledge Based and Intelligent Engineering Systems but now extending into other related areas Through this KES provides its members with opportunities for publication and beneficial interaction The focus of KES is research and technology transfer in the area of Intelligent Systems i.e. computer based software systems that operate in a manner analogous to the human brain in order to perform advanced tasks Recently KES has started to extend its area of interest to encompass the contribution that intelligent systems can make to sustainability and renewable energy and also the knowledge transfer innovation and enterprise agenda Involving several thousand researchers managers and engineers drawn from universities and companies world wide KES is in an excellent position to facilitate international research co operation and generate synergy in the area of artificial intelligence applied to real world Smart systems and the underlying related theory The KES

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Information Security Management Handbook, Volume 3 Harold F. Tipton, Micki Krause, 2006-01-13 Since 1993 the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional CISSP examination Now completely revised and updated and includes new chapters on

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