

[DOC] Multimedia Security Steganography And Digital Watermarking Techniques For Protection Of Intellectual Property

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Information Hiding-Stefan Katzenbeisser 2016-01-01 A successor to the popular Artech House title Information Hiding Techniques for Steganography and Digital Watermarking, this comprehensive and up-to-date new resource gives the reader a thorough review of steganography, digital watermarking and media fingerprinting with possible applications to modern communication, and a survey of methods used to hide information in modern media. This book explores Steganography, as a means by which two or more parties may communicate using invisible or subliminal communication. "Steganalysis" is described as methods which can be used to break steganographic communication. This comprehensive resource also includes an introduction to watermarking and its methods, a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use. This book demonstrates a working knowledge of watermarking’s pros and cons, and the legal implications of watermarking and copyright issues on the Internet.

Transactions on Data Hiding and Multimedia Security I-Yun Q. Shi 2006-10-26 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 in multimedia security. Two related disciplines, steganalysis and data forensics, are also increasingly attracting researchers and forming another new research field in 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 inaugural issue contains five papers dealing with a wide range of topics related to multimedia security. The first paper deals with evaluation criteria for the performance of audio watermarking algorithms. The second provides a survey of problems related to watermark security. The third discusses practical implementations of zero-knowledge watermark detectors and proposes efficient solutions for correlation-based detectors. The fourth introduces the concept of Personal Entertainment Domains (PED) in Digital Rights Management (DRM) schemes. The fifth reports on the use of fusion techniques to improve the detection accuracy of steganalysis.

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Multimedia Forensics and Security-Li, Chang-Tsun 2008-07-31 As information technology is rapidly progressing, an enormous amount of media can be easily exchanged through Internet and other communication networks. Increasing amounts of digital image, video, and music have created numerous information security issues and is now taken as one of the top research and development agendas for researchers, organizations, and governments worldwide. "Multimedia Forensics and Security"" provides an in-depth treatment of advancements in the emerging field of multimedia forensics and security by tackling challenging issues such as digital watermarking for copyright protection, digital fingerprinting for transaction tracking, and digital camera source identification.

Handbook of Research on Secure Multimedia Distribution-Lian, Shiguo 2009-03-31 "This handbook is for both secure multimedia distribution researchers and also decision makers in obtaining a greater understanding of the concepts, issues, problems, trends, challenges and opportunities related to secure multimedia distribution"--Provided by publisher.

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Digital Forensics and Watermarking-Christian Kraetzer 2017-08-09 This book constitutes the refereed proceedings of the 16th International Workshop on Digital Forensics and Watermarking, IWDW 2017, held in Magdeburg, Germany, in August 2017. The 30 papers presented in this volume were carefully reviewed and selected from 48 submissions. The contributions are covering the state-of-the-art theoretical and practical developments in the fields of digital watermarking, steganography and steganalysis, forensics and anti-forensics, visual cryptography, and other multimedia-related security issues. Also included are the papers on two special sessions on biometric image tampering detection and on emerging threats of criminal use of information hiding : usage scenarios and detection approaches.

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Digital Media Steganography-Mahmoud Hassaballah 2020-06-27 The common use of the Internet and cloud services in transmission of large amounts of data over open networks and insecure channels, exposes that private and secret data to serious situations. Ensuring the information transmission over the Internet is safe and secure has become crucial, consequently information security has become one of the most important issues of human communities because of increased data transmission over social networks. Digital Media Steganography: Principles, Algorithms, and Advances covers fundamental theories and algorithms for practical design, while providing a comprehensive overview of the most advanced methodologies and modern techniques in the field of steganography. The topics covered present a collection of high-quality research works written in a simple manner by world-renowned leaders in the field dealing with specific research problems. It presents the state-of-the-art as well as the most recent trends in digital media steganography. Covers fundamental theories and algorithms for practical design which form the basis of modern digital media steganography Provides new theoretical breakthroughs and a number of modern techniques in steganography Presents the latest advances in digital media steganography such as using deep learning and artificial neural network as well as Quantum Steganography

Digital Watermarking and Steganography-Frank Y. Shih 2017-12-19 Every day millions of people capture, store, transmit, and manipulate digital data. Unfortunately free access digital multimedia communication also provides virtually unprecedented opportunities to pirate copyrighted material. Providing the theoretical background needed to develop and implement advanced techniques and algorithms, Digital Watermarking and Steganography: Demonstrates how to develop and implement methods to guarantee the authenticity of digital media Explains the categorization of digital watermarking techniques based on characteristics as well as applications Presents cutting-edge techniques such as the GA-based breaking algorithm on the frequency-domain steganalytic system The popularity of digital media continues to soar. The theoretical foundation presented within this valuable reference will facilitate the creation on new techniques and algorithms to combat present and potential threats against information security.

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Multimedia Security Handbook-Borko Furht 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 securit

Digital Watermarking-Mauro Barni 2005-08-30 This book constitutes the refereed proceedings of the 4th International Workshop on Digital Watermarking Secure Data Management, IWDW 2005, held in Siena, Italy in September 2005. The 31 revised full papers presented were carefully reviewed and selected from 74 submissions. The papers are organized in topical sections on steganography and steganalysis, fingerprinting, watermarking, attacks, watermarking security, watermarking of unconventional media, channel coding and watermarking, theory, and applications.

Security, Privacy and Anonymity in Computation, Communication and Storage-Guojun Wang 2016-11-09 This volume constitutes the refereed proceedings of six workshops held at the 9th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage, SpaCCS 2016, held in Zhangjiajie, China, in November 2016; the 7th International Workshop on Trust, Security and Privacy for Big Data, TrustData 2016; the 6th International Symposium on Trust, Security and Privacy for Emerging Applications, TSP 2016; the 4th International Workshop on Network Optimization and Performance Evaluation, NOPE 2016; the Second International Symposium on Dependability in Sensor, Cloud, and Big Data Systems and Applications, DependSys 2016; the Annual Big Data Security, Privacy and Trust Workshop, BigDataSPT 2016; and the First International Workshop on Cloud Storage Service and Computing, WCS SC 2016. The 37 full papers presented were carefully reviewed and selected from 95 submissions. The papers deal with research findings, ideas and emerging trends in information security research and cover a broad range of topics in security, privacy and anonymity in computation, communication and storage.

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.

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-Kaiser J. Giri 2021-01-11 This book is a collection of outstanding content written by experts working in the field of multimedia security. It provides an insight about various techniques used in multimedia security and identifies its progress in both technological and algorithmic perspectives. In the contemporary world, digitization offers an effective mechanism to process, preserve and transfer all types of information. The incredible progresses in computing and communication technologies augmented by economic feasibility have revolutionized the world. The availability of efficient algorithms together with inexpensive digital recording and storage peripherals have created a multimedia era bringing conveniences to people in sharing the digital data that includes images, audio and video. The ever-increasing pace, at which the multimedia and communication technology is growing, has also made it possible to combine, replicate and distribute the content faster and easier, thereby empowering mankind by having a wealth of information at their disposal. However, security of multimedia is giving tough time to the research community around the globe, due to ever-increasing and efficient attacks carried out on multimedia data by intruders, eves-droppers and hackers. Further, duplication, unauthorized use and mal-distribution of digital content have become a serious challenge as it leads to copyright violation and is considered to be the principal reason that refrains the information providers in freely sharing their proprietary digital content. The book is useful for students, researchers and professionals to advance their study.

Digital Watermarking for Digital Media-Juergen Seitz 2005-01-01 "The book discusses new aspects of digital watermarking in a worldwide context"--Provided by publisher.