

MULTIMEDIA SECURITY:

**WATERMARKING,
STEGANOGRAPHY, AND FORENSICS**

EDITED BY

FRANK Y. SHIH



CRC Press
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Multimedia Security Watermarking Steganography And Forensics

M Lipman



Multimedia Security Watermarking Steganography And Forensics:

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

Multimedia Security Bhaskar Mondal, Shyam Singh Rajput, 2025-07-07 Multimedia security has become one of the most important topics for organizations and individuals Presenting important state of the art multimedia security techniques and algorithms this book focuses on data encryption steganography watermarking authentication data hiding biometric template security quantum based video cryptosystems pan sharpening and digital signatures to help in protecting the unauthorized access alteration of multimedia over the Internet and cloud It also covers the application of machine learning blockchain and AI based methods for multimedia security Mathematical models used in data hiding and data evaluation techniques are discussed thoroughly to provide a good understanding of the principles of multimedia security

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

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

Security, Steganography, and Watermarking of Multimedia Contents ,2005

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 Forensics

Husrev Taha Sencar,Luisa Verdoliva,Nasir Memon,2022-04-02 This book is open access Media forensics has never been more relevant to societal life Not only media content represents an ever increasing share of the data traveling on the net and the preferred communications means for most users it has also become integral part of most innovative applications in the digital information ecosystem that serves various sectors of society from the entertainment to journalism to politics Undoubtedly the advances in deep learning and computational imaging contributed significantly to this outcome The underlying technologies that drive this trend however also pose a profound challenge in establishing trust in what we see hear and read and make media content the preferred target of malicious attacks In this new threat landscape powered by innovative imaging technologies and sophisticated tools based on autoencoders and generative adversarial networks this book fills an important gap It presents a comprehensive review of state of the art forensics capabilities that relate to media attribution integrity and authenticity verification and counter forensics Its content is developed to provide practitioners researchers photo and video enthusiasts and students a holistic view of the field

Multimedia Security 2 William Puech,2022-06-21

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 2 analyzes issues relating to biometrics protection integrity and encryption of multimedia data It also covers aspects such as crypto compression of images and videos homomorphic encryption data hiding in the encrypted domain and secret sharing

Multimedia Security Kaiser J. Giri, Shabir Ahmad Parah, Rumaan Bashir, Khan Muhammad, 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 eavesdroppers 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

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li, 2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication forensic triage forensic photogrammetry biometric forensics multimedia device identification and image forgery detection

among many others Key features Brings digital and multimedia forensics together with contributions from academia law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides test datasets and more case studies

Decoding **Multimedia Security Watermarking Steganography And Forensics**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Multimedia Security Watermarking Steganography And Forensics**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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