

# MULTIMEDIA ENCRYPTION AND WATERMARKING

**Borko Furht**  
**Edin Muharemagic**  
**Daniel Socek**

 Springer

# Multimedia Encryption And Watermarking

**Subhrajyoti Deb, Aditya Kumar Sahu**



## **Multimedia Encryption And Watermarking:**

**Multimedia Encryption and Watermarking** Borko Furht, Edin Muharemagic, Daniel Socek, 2006-10-03 Multimedia Encryption and Watermarking presents a comprehensive survey of contemporary multimedia encryption and watermarking techniques which enable a secure exchange of multimedia intellectual property Part I Digital Rights Management DRM for Multimedia introduces DRM concepts and models for multimedia content protection and presents the key players Part II Multimedia Cryptography provides an overview of modern cryptography with the focus on modern image video speech and audio encryption techniques This book also provides an advanced concept of visual and audio sharing techniques Part III Digital Watermarking introduces the concept of watermarking for multimedia classifies watermarking applications and evaluates various multimedia watermarking concepts and techniques including digital watermarking techniques for binary images Multimedia Encryption and Watermarking is designed for researchers and practitioners as well as scientists and engineers who design and develop systems for the protection of digital multimedia content This volume is also suitable as a textbook for graduate courses on multimedia security

**Cain** Ricardo Barreiro, Eduardo Risso, 2007-03 In the high tech world of the near future powerful emotions still reign Discarded in a garbage dump as an infant raised by gypsies and shaped by the reformatory Cain is an angry young man When he discovers that he was born to be an heir and that his own mother exiled him to keep the fortune for herself and her eldest son no one is safe from Cain's rage

**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

*Multimedia Content Encryption* Shiguo Lian, 2008-09-17 The widespread use of image audio and video data makes media content protection increasingly necessary and urgent For maximum safety it is no longer sufficient to merely control access rights In order to fully protect multimedia data from piracy or unauthorized use it must be secured through encryption prior to its transmission or distribution Multimedia Content Encryption Techniques and Applications presents the latest research results in this dynamic field The book begins with the history of multimedia encryption and then examines general performance requirements of encryption and fundamental encrypting techniques It discusses common techniques of complete partial and compression combined encryption as well as the more specialized forms including perception scalable and commutative encryption In addition the author reviews watermarking and joint fingerprint embedding and decryption Later chapters discuss typical attacks on multimedia encryption as well as the principles for designing secure algorithms and various applications An exploration of open issues up and coming topics and areas for further research rounds out the coverage Shiguo Lian is the author or co author of more than fifty peer reviewed journal and conference articles covering topics of network security and multimedia content protection including

cryptography secure P2P content sharing digital rights management DRM encryption watermarking digital fingerprinting and authentication By following the techniques outlined in this book users will be better able to protect the integrity of their multimedia data and develop greater confidence that their data will not be misappropriated *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 concepts including protection architectures encryption watermarking fingerprinting authentication and various applications Comprising 26 chapters the Handbook begins by introducing security fundamentals and discussing the vulnerabilities of individual protection schemes Part II focuses on multimedia encryption detailing audio image and video encryption techniques Part III examines watermarking techniques reviewing current and future trends and discussing multidimensional fragile and robust watermarks Part IV covers multimedia data hiding fingerprinting and authentication The text concludes with chapters describing applications of multimedia protection schemes presenting topics such as application taxonomy digital rights management and techniques for adult image filtering The Handbook offers comprehensive reference material on advanced topics in the field It delivers invaluable insight for researchers practitioners and engineers involved in designing and developing systems that protect digital multimedia content

*Multimedia Encryption and Authentication Techniques and Applications* Borko Furht, Darko Kirovski, 2006-05-03 Intellectual property owners must continually exploit new ways of reproducing distributing and marketing their products However the threat of piracy looms as a major problem with digital distribution and storage technologies *Multimedia Encryption and Authentication Techniques and Applications* covers current and future trends in the des **Security, Steganography, and Watermarking of Multimedia Contents**, 2005 **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

**Handbook of Research on Wireless Security** Yan Zhang, Jun Zheng (Ph.D.), Miao Ma, 2008-01-01 Provides research on security issues in various wireless communications recent advances in wireless security the wireless security model and future directions in wireless security

**Applications of Encryption and Watermarking for Information Security** Mohamed, Boussif, 2023-03-27 In recent years media digitalization has been booming It has however led to a phenomenon of private data hacking which was stimulated by the expansion of the data exchange system These hackers are being countered by using new techniques including cryptography and watermarking Therefore in the fields of information security data encryption and watermarking there exists a need for a collection of original research in this area Applications of Encryption and Watermarking for Information Security provides relevant theoretical frameworks and the latest empirical research findings in the domains of security and privacy It is written for professionals who want to improve their understanding of the strategic role of trust at different levels of information security that is trust at the level of cryptography and watermarking and at the level of securing multimedia data Covering topics such as background subtraction moving object detection and visual watermark identification this premier reference source is an excellent resource for security and privacy professionals IT managers practitioners students and educators of higher education librarians researchers and academicians

Handbook of Multimedia Information Security: Techniques and Applications Amit Kumar Singh, Anand Mohan, 2019-07-19 This handbook is organized under three major parts The first part of this handbook deals with multimedia security for emerging applications The chapters include basic concepts of multimedia tools and applications biological and behavioral biometrics effective multimedia encryption and secure watermarking techniques for emerging applications an adaptive face identification approach for android mobile devices and multimedia using chaotic and perceptual hashing function The second part of this handbook focuses on multimedia processing for various potential applications The chapter includes a detail survey of image processing based automated glaucoma detection techniques and role of de noising recent study of dictionary learning based image reconstruction techniques for analyzing the big medical data brief introduction of quantum image processing and its applications a segmentation less efficient Alzheimer detection approach object recognition image enhancements and de noising techniques for emerging applications improved performance of image compression approach and automated detection of eye related diseases using digital image processing The third part of this handbook introduces

multimedia applications The chapter includes the extensive survey on the role of multimedia in medicine and multimedia forensics classification a finger based authentication system for e health security analysis of recently developed deep learning techniques for emotion and activity recognition Further the book introduce a case study on change of ECG according to time for user identification role of multimedia in big data cloud computing the Internet of things IoT and blockchain environment in detail for real life applications This handbook targets researchers policy makers programmers and industry professionals in creating new knowledge for developing efficient techniques framework for multimedia applications Advanced level students studying computer science specifically security and multimedia will find this book useful as a reference *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 *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

Multimedia Watermarking Aditya Kumar Sahu, 2024-02-21 Multimedia watermarking is a key ingredient for integrity verification transaction tracking copyright protection authentication copy control and forgery detection This book provides an extensive survey from the fundamentals to cutting edge digital watermarking techniques One of the crucial aspects of multimedia security is the ability to detect forged tampered regions from the multimedia object In this book we emphasized how tampering detection localization and recovery of manipulated information not only limits but also eliminates the scope of unauthorized usage Finally this book provides the groundwork for understanding the role of intelligent machines and blockchain in achieving better security in multimedia watermarking Readers will find it easy to comprehend the wide variety of applications theoretical principles and effective solutions for protecting intellectual rights soon after reading this book

*Security and Watermarking of Multimedia Contents*, 1999 Securing the Digital World Subhrajyoti Deb, Aditya Kumar Sahu, 2025-01-16 Securing the Digital World A Comprehensive Guide to Multimedia Security is indispensable reading in today's digital age With the outbreak of digital range and ever evolving cyber threats the demand to protect multimedia data

has never been more imperative This book provides comprehensive research on multimedia information security and bridges the gap between theoretical bases and practical applications Authored by leading experts in the area the book focusses on cryptography watermarking steganography and its advanced security solution while keeping a clear and engaging description and sets this book apart in its capability to make complex concepts accessible and practical making it an incalculable resource for beginners and seasoned professionals alike Key Features Detailed study of encryption techniques including encryption and decryption methods adapted to multimedia data A comprehensive discussion of techniques for embedding and detecting hidden information in digital media A survey of the latest advances in multimedia security including quantum cryptography and blockchain applications Real world case studies and illustrations that demonstrate the application of multimedia information security techniques in various initiatives Contributions from computer science and information technology experts offer a comprehensive perspective on multimedia security This book is an invaluable help for cybersecurity professionals IT professionals and computer and information technology students Securing the Digital World equips readers with the information and tools required to safeguard multimedia content in a cyber spatiality full of security challenges

**Multimedia Security Technologies for Digital Rights Management** Wenjun Zeng, Heather Yu, Ching-Yung Lin, 2011-07-28 Security is a major concern in an increasingly multimedia defined universe where the Internet serves as an indispensable resource for information and entertainment Digital Rights Management DRM is the technology by which network systems protect and provide access to critical and time sensitive copyrighted material and or personal information This book equips savvy technology professionals and their aspiring collegiate protégés with the latest technologies strategies and methodologies needed to successfully thwart off those who thrive on security holes and weaknesses Filled with sample application scenarios and algorithms this book provides an in depth examination of present and future field technologies including encryption authentication copy control tagging tracing conditional access and media identification The authors present a diversified blend of theory and practice and focus on the constantly changing developments in multimedia applications thus providing an admirably comprehensive book Discusses state of the art multimedia authentication and fingerprinting techniques Presents several practical methodologies from industry including broadcast encryption digital media forensics and 3D mesh watermarking Focuses on the need for security in multimedia applications found on computer networks cell phones and emerging mobile computing devices

*Security and Watermarking of Multimedia Contents II* Ping Wah Wong, Edward J. Delp, Society of Photo-optical Instrumentation Engineers, 2000

Digital Watermarking and Steganography Ingemar J. Cox, 2008 Digital audio video images and documents are flying through cyberspace to their respective owners Unfortunately along the way individuals may choose to intervene and take this content for themselves Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken The many techniques of digital

watermarking embedding a code and steganography hiding information continue to evolve as applications that necessitate them do the same The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well received edition Steganography and steganalysis the art of detecting hidden information have been added to a robust treatment of digital watermarking as many in each field research and deal with the other New material includes watermarking with side information QIM and dirty paper codes The revision and inclusion of new material by these influential authors has created a must own book for anyone in this profession This new edition now contains essential information on steganalysis and steganography New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications

**Advanced Techniques in Multimedia Watermarking: Image, Video and Audio Applications** Al-Haj, Ali Mohammad, 2010-05-31 This book introduces readers to state of art research in multimedia watermarking in the different disciplines of watermarking addressing the different aspects of advanced watermarking research modeling and theoretical analysis advanced embedding and extraction techniques software and hardware implementations and performance evaluations of watermarking systems Provided by publisher



## Reviewing **Multimedia Encryption And Watermarking**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Multimedia Encryption And Watermarking**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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