

# MULTIMEDIA ENCRYPTION AND WATERMARKING

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



Springer

# Multimedia Encryption And Watermarking

**Pagani, Margherita**



## **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 **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 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 design of 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 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 **Recent Advances in Multimedia Signal Processing and Communications** Mislav Grgic, Kresimir Delac, Mohammed Ghanbari, 2009-10-14 The rapid increase in computing power and communication speed coupled with computer storage facilities availability has led to a new age of multimedia applications This book presents recent advances in Multimedia Signal Processing and Communications

*Security, Steganography, and Watermarking of Multimedia Contents*, 2005 **Handbook of Research on Wireless Security** Yan Zhang, Jun Zheng, Miao Ma, 2008-01-01 This book combines research from esteemed experts on security issues in various wireless communications recent advances in wireless security the wireless security model and future directions in wireless security As an innovative reference source for students educators faculty members researchers engineers in the field of wireless security it will make an invaluable addition to any library collection Provided by publisher 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 **Digital Watermarking in Cloud Environments For**

**Copyright Protection** Kumar, Ashwani, de Alexandria, Auzuir Ripardo, Yadav, Satya Prakash, Galletta, Antonino, 2025-08-15

As cloud based platforms become more necessary for digital content ensuring the protection of intellectual property has also become a necessity for organizations Digital watermarking has emerged as a vital technique for embedding copyright information in media content and offers a robust layer of security The advancements in digital watermarking for copyright protection within cloud infrastructures better safeguard digital assets in a highly connected world Digital Watermarking in Cloud Environments For Copyright Protection delves into digital image watermarking techniques exploring their various classifications including robust fragile blind and non blind watermarking It highlights the importance of securing sensitive data in the ciphertext domain to prevent data theft during transmission Covering topics such as adaptive watermarking algorithms copyright vulnerability and quantum cryptography this book is an excellent resource for researchers academicians practitioners managers and more

*Intellectual Property Protection for Multimedia Information Technology*

Sasaki, Hideyasu, 2007-12-31 Since previously published intellectual property law and business research discusses institutional analyses without interdisciplinary insights by technical experts and technical references tend to concern engineering solutions without considering the social impact of institutional protection of multimedia digital information there is a growing demand for a resource that bridges the gap between multimedia intellectual property protection law and technology Intellectual Property Protection for Multimedia Information Technology provides scholars management professionals researchers and lawyers in the field of multimedia information technology and its institutional practice with thorough coverage of the full range of issues surrounding multimedia intellectual property protection and its proper solutions from institutional technical and legal perspectives

*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

*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      **Encyclopedia of Multimedia Technology and Networking, Second Edition** Pagani, Margherita, 2008-08-31 Advances in hardware software and audiovisual rendering technologies of recent years have unleashed a wealth of new capabilities and possibilities for multimedia applications creating a need for a comprehensive up to date reference The Encyclopedia of Multimedia Technology and Networking provides hundreds of contributions from over 200 distinguished international experts covering the most important issues concepts trends and technologies in multimedia technology This must have reference contains over 1 300 terms definitions and concepts providing the deepest level of understanding of the field of multimedia technology and networking for academicians researchers and professionals worldwide      *Encyclopedia of Multimedia* Borko Furht, 2008-11-26 This second edition provides easy access to important concepts issues and technology trends in the field of multimedia technologies systems techniques and applications Over 1 100 heavily illustrated pages including 80 new entries present concise overviews of all aspects of software systems web tools and hardware that enable video audio and developing media to be shared and delivered electronically      First International Conference of the South Asian Society of Criminology and Victimology (SASCV), 15-17 January 2011, Jaipur, Rajasthan, India K. Jaishankar and Natti Ronel, 2011      **Global Trends in Information Systems and Software Applications** P. Venkata Krishna, M. Rajasekhara Babu, Ezendu Ariwa, 2012-08-01 This 2 Volume Set CCIS 0269 CCIS 0270 constitutes the refereed proceedings of the International Conference on Global Trends in Computing and Communication CCIS 0269 and the International Conference on Global Trends in Information Systems and Software Applications CCIS 0270 ObCom 2011 held in Vellore India in December 2011 The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions The conference addresses issues associated with computing communication and information Its aim is to increase exponentially the participants awareness of the current and future direction in the domains and to create a platform between researchers leading industry developers and end users to interrelate      **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 Comprinsing 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 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     *Handbook of Research on Secure Multimedia Distribution* Lian, Shiguo,Zhang, Yan,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

## Adopting the Tune of Appearance: An Psychological Symphony within **Multimedia Encryption And Watermarking**

In some sort of used by displays and the ceaseless chatter of quick interaction, the melodic elegance and mental symphony created by the prepared word often diminish into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. But, set within the pages of **Multimedia Encryption And Watermarking** a charming literary value filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this charming masterpiece conducts readers on a psychological journey, well unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths of the emotional assessment, we shall discover the book is central harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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