



Security and Watermarking of Multimedia Contents III

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Bahram Javidi



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Security, Steganography, and Watermarking of Multimedia Contents, 2005 **Multimedia Watermarking**

Techniques and Applications Darko Kirovski, 2006-04-18 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 Watermarking Techniques and Applications covers all current and future trends in the design of modern 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 Communications and Multimedia Security

David Chadwick, Bart Preneel, 2008-09-26 Communications and Multimedia Security is an essential reference for both academic and professional researchers in the fields of Communications and Multimedia Security This state of the art volume presents the proceedings of the Eighth Annual IFIP TC 6 TC 11 Conference on Communications and Multimedia Security September 2004 in Windermere UK The papers presented here represent the very latest developments in security research from leading people in the field The papers explore a wide variety of subjects including privacy protection and trust negotiation mobile security applied cryptography and security of communication protocols Of special interest are several papers which addressed security in the Microsoft Net architecture and the threats that builders of web service applications need to be aware of The papers were a result of research sponsored by Microsoft at five European University research centers This collection will be important not only for multimedia security experts and researchers but also for all teachers and administrators interested in communications security **Multimedia Security 1** William Puech, 2022-03-08 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 1 analyzes the issues of the authentication of multimedia data code and the embedding of hidden data both from the point of view of defense and attack Regarding the embedding of hidden data it also covers invisibility color tracing and 3D data as well as the detection of hidden messages in an image by steganalysis **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 Crime and Forensic Science in Cyberspace* Kanellis, Panagiotis, Kiountouzis, Evangelos, Kolokotronis, Nicholas, Martakos, Drakoulis, 2006-04-30 Digital forensics is the science of collecting the evidence that can be used in a court of law to prosecute the individuals who engage in electronic crime Provided by publisher *Digital Watermarking and Steganography* Ingemar Cox, Matthew Miller, Jeffrey Bloom, Jessica Fridrich, Ton Kalker, 2007-11-23 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 *Security and Privacy in the Age of Ubiquitous Computing* Ryoichi Sasaki, Eiji Okamoto, Hiroshi Yoshiura, 2010-06-03 Even in the age of ubiquitous computing the importance of the Internet will not change and we still need to solve conventional security issues In addition we need to deal with new issues such as security in the P2P environment privacy issues in the use of smart cards and RFID systems *Security and Privacy in the Age of Ubiquitous Computing* addresses these issues and more by exploring a wide scope of topics The volume presents a selection of papers from the proceedings of the 20th IFIP International Information Security Conference held from May 30 to June 1 2005 in Chiba Japan Topics covered include cryptography applications authentication privacy and anonymity DRM and content security computer forensics Internet and web security security in sensor networks intrusion detection commercial and industrial security authorization and access control information warfare and critical protection infrastructure These papers represent the most current research in information security including research funded in part by DARPA and the National Science Foundation **Steganography in Digital Media** Jessica Fridrich, 2010 Understand the building blocks of covert communication in digital media and apply the techniques in practice with this self contained guide **Digital Image Forensics** Husrev Taha Sencar, Nasir

Memon,2012-08-01 Photographic imagery has come a long way from the pinhole cameras of the nineteenth century Digital imagery and its applications develops in tandem with contemporary society's sophisticated literacy of this subtle medium This book examines the ways in which digital images have become ever more ubiquitous as legal and medical evidence just as they have become our primary source of news and have replaced paper based financial documentation Crucially the contributions also analyze the very profound problems which have arisen alongside the digital image issues of veracity and progeny that demand systematic and detailed response It looks real but is it What camera captured it Has it been doctored or subtly altered Attempting to provide answers to these slippery issues the book covers how digital images are created processed and stored before moving on to set out the latest techniques for forensically examining images and finally addressing practical issues such as courtroom admissibility In an environment where even novice users can alter digital media this authoritative publication will do much so stabilize public trust in these real yet vastly flexible images of the world around us

Noiseless Steganography Abdelrahman Desoky,2016-04-19 Among the features that make Noiseless Steganography The Key to Covert Communications a first of its kind The first to comprehensively cover Linguistic SteganographyThe first to comprehensively cover Graph SteganographyThe first to comprehensively cover Game SteganographyAlthough the goal of steganography is to prevent adversaries from suspe

Optical and Digital Techniques for Information Security Bahram Javidi,2006-11-22 There are wide ranging implications in information security beyond national defense Securing our information has implications for virtually all aspects of our lives including protecting the privacy of our nancial transactions and medical records facilitating all operations of government maintaining the integrity of national borders securing important facilities ensuring the safety of our food and commercial products protecting the safety of our aviation system even safeguarding the integrity of our very identity against theft Information security is a vital element in all of these activities particularly as information collection and distribution become ever more connected through electronic information delivery systems and commerce This book encompasses results of research investigation and technologies that can be used to secure protect verify and authenticate objects and inf mation from theft counterfeiting and manipulation by unauthorized persons and agencies The book has drawn on the diverse expertise in optical sciences and engineering digital image processing imaging systems information p cessing mathematical algorithms quantum optics computer based infor tion systems sensors detectors and biometrics to report novel technologies that can be applied to information security issues The book is unique because it has diverse contributions from the eld of optics which is a new emerging technology for security and digital techniques that are very accessible and can be interfaced with optics to produce highly e ective security systems

Software Engineering and Computer Systems, Part I Jasni Mohamad Zain,Wan Maseri Wan Mohd,Eyas El-Qawasmeh,2011-06-28 This Three Volume Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems ICSECS 2011 held in Kuantan Malaysia in June

2011 The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software engineering network bioinformatics and e health biometrics technologies Web engineering neural network parallel and distributed e learning ontology image processing information and data management engineering software security graphics and multimedia databases algorithms signal processing software design testing e technology ad hoc networks social networks software process modeling miscellaneous topics in software engineering and computer systems *Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering* Tarek Sobh,Khaled Elleithy,2012-08-14 Emerging Trends in Computing Informatics Systems Sciences and Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology Automation Telecommunications and Networking Systems Computing Sciences and Software Engineering Engineering Education Instructional Technology Assessment and E learning This book includes the proceedings of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2010 The proceedings are a set of rigorously reviewed world class manuscripts presenting the state of international practice in Innovative Algorithms and Techniques in Automation Industrial Electronics and Telecommunications **Iris Biometrics** Christian Rathgeb,Andreas Uhl,Peter Wild,2012-11-08 Iris Biometrics From Segmentation to Template Security provides critical analysis challenges and solutions on recent iris biometric research topics including image segmentation image compression watermarking advanced comparators template protection and more Open source software is also provided on a dedicated website which includes feature extraction segmentation and matching schemes applied in this book to foster scientific exchange Current state of the art approaches accompanied by comprehensive experimental evaluations are presented as well This book has been designed as a secondary text book or reference for researchers and advanced level students in computer science and electrical engineering Professionals working in this related field will also find this book useful as a reference 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 **Transactions on Data Hiding and Multimedia Security I** Yun Q. Shi,2006-10-26 This inaugural issue of the LNCS Transactions on Data Hiding and Multimedia Security contains five papers dealing with a wide range of topics related to multimedia security from a survey of problems related to watermark security to an introduction to the concept of Personal Entertainment Domains PED in Digital Rights Management DRM schemes *Information Hiding* Jessica Fridrich,2004-12-17 This book constitutes the thoroughly refereed post proceedings of the 6th International Workshop on

Information Hiding IH 2004 held in Toronto Canada in August 2004 The 25 revised full papers presented were carefully selected during two rounds of reviewing and revision from 70 papers submitted The papers are organized in topical sections on digital media watermarking steganalysis forensic applications steganography software watermarking security and privacy anonymity and data hiding in unusual content **Instrumentation, Measurement, Circuits and Systems** Tianbiao Zhang,2012-03-09 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology held on London UK November 24 25 2011 Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design Technologies such as solid models may be used as the basis for finite element analysis FEA and or computational fluid dynamics CFD of the design Through the application of computer aided manufacturing CAM the models may also be used directly by software to create instructions for the manufacture of objects represented by the models through computer numerically controlled CNC machining or other automated processes without the need for intermediate drawings This volume covers the subject areas of mechanical engineering and technology and also covers interdisciplinary subject areas of computers communications control and automation We hope that researchers graduate students and other interested readers benefit scientifically from the book and also find it stimulating in the process

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