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Reversible Digital Watermarking

Theory and Practices

Ruchira Naskar
Rajat Subhra Chakraborty

***SYNTHESIS LECTURES ON
INFORMATION SECURITY, PRIVACY, AND TRUST***

Elisa Bertino & Ravi Sandhu, Series Editors

Reversible Digital Watermarking Theory And Practices

Rajat Subhra Chakraborty

**Christian Wachsmann,Ahmad-Reza
Sadeghi**



Reversible Digital Watermarking Theory And Practices Rajat Subhra Chakraborty:

Reversible Digital Watermarking Ruchira Naskar,Rajat Subhra Chakraborty,2022-06-01 Digital Watermarking is the art and science of embedding information in existing digital content for Digital Rights Management DRM and authentication Reversible watermarking is a class of fragile digital watermarking that not only authenticates multimedia data content but also helps to maintain perfect integrity of the original multimedia cover data In non reversible watermarking schemes after embedding and extraction of the watermark the cover data undergoes some distortions although perceptually negligible in most cases In contrast in reversible watermarking zero distortion of the cover data is achieved that is the cover data is guaranteed to be restored bit by bit Such a feature is desirable when highly sensitive data is watermarked e g in military medical and legal imaging applications This work deals with development analysis and evaluation of state of the art reversible watermarking techniques for digital images In this work we establish the motivation for research on reversible watermarking using a couple of case studies with medical and military images We present a detailed review of the state of the art research in this field We investigate the various subclasses of reversible watermarking algorithms their operating principles and computational complexities Along with this to give the readers an idea about the detailed working of a reversible watermarking scheme we present a prediction based reversible watermarking technique recently published by us We discuss the major issues and challenges behind implementation of reversible watermarking techniques and recently proposed solutions for them Finally we provide an overview of some open problems and scope of work for future researchers in this area

Digital Forensic Science Vassil Roussev,2022-05-31 Digital forensic science or digital forensics is the application of scientific tools and methods to identify collect and analyze digital data artifacts in support of legal proceedings From a more technical perspective it is the process of reconstructing the relevant sequence of events that have led to the currently observable state of a target IT system or digital artifacts Over the last three decades the importance of digital evidence has grown in lockstep with the fast societal adoption of information technology which has resulted in the continuous accumulation of data at an exponential rate Simultaneously there has been a rapid growth in network connectivity and the complexity of IT systems leading to more complex behavior that needs to be investigated The goal of this book is to provide a systematic technical overview of digital forensic techniques primarily from the point of view of computer science This allows us to put the field in the broader perspective of a host of related areas and gain better insight into the computational challenges facing forensics as well as draw inspiration for addressing them This is needed as some of the challenges faced by digital forensics such as cloud computing require qualitatively different approaches the sheer volume of data to be examined also requires new means of processing it

Anomaly Detection as a Service Danfeng (Daphne) Yao,Xiaokui Shu,Long Cheng,Salvatore J. Stolfo,2022-06-01 Anomaly detection has been a long standing security approach with versatile applications ranging from securing server programs in critical environments to detecting insider threats in enterprises to

anti abuse detection for online social networks Despite the seemingly diverse application domains anomaly detection solutions share similar technical challenges such as how to accurately recognize various normal patterns how to reduce false alarms how to adapt to concept drifts and how to minimize performance impact They also share similar detection approaches and evaluation methods such as feature extraction dimension reduction and experimental evaluation The main purpose of this book is to help advance the real world adoption and deployment anomaly detection technologies by systematizing the body of existing knowledge on anomaly detection This book is focused on data driven anomaly detection for software systems and networks against advanced exploits and attacks but also touches on a number of applications including fraud detection and insider threats We explain the key technical components in anomaly detection workflows give in depth description of the state of the art data driven anomaly based security solutions and more importantly point out promising new research directions This book emphasizes on the need and challenges for deploying service oriented anomaly detection in practice where clients can outsource the detection to dedicated security providers and enjoy the protection without tending to the intricate details

Privacy Risk Analysis of Online Social Networks Sourya Joyee De, Abdessamad Imine, 2022-06-01 The social benefit derived from Online Social Networks OSNs can lure users to reveal unprecedented volumes of personal data to an online audience that is much less trustworthy than their offline social circle Even if a user hides his personal data from some users and shares with others privacy settings of OSNs may be bypassed thus leading to various privacy harms such as identity theft stalking or discrimination Therefore users need to be assisted in understanding the privacy risks of their OSN profiles as well as managing their privacy settings so as to keep such risks in check while still deriving the benefits of social network participation This book presents to its readers how privacy risk analysis concepts such as privacy harms and risk sources can be used to develop mechanisms for privacy scoring of user profiles and for supporting users in privacy settings management in the context of OSNs Privacy scoring helps detect and minimize the risks due to the dissemination and use of personal data The book also discusses many open problems in this area to encourage further research

Differential Privacy Ninghui Li, Min Lyu, Dong Su, Weining Yang, 2022-05-31 Over the last decade differential privacy DP has emerged as the de facto standard privacy notion for research in privacy preserving data analysis and publishing The DP notion offers strong privacy guarantee and has been applied to many data analysis tasks This Synthesis Lecture is the first of two volumes on differential privacy This lecture differs from the existing books and surveys on differential privacy in that we take an approach balancing theory and practice We focus on empirical accuracy performances of algorithms rather than asymptotic accuracy guarantees At the same time we try to explain why these algorithms have those empirical accuracy performances We also take a balanced approach regarding the semantic meanings of differential privacy explaining both its strong guarantees and its limitations We start by inspecting the definition and basic properties of DP and the main primitives for achieving DP Then we give a detailed discussion on the the semantic privacy guarantee provided by DP and the caveats when

applying DP Next we review the state of the art mechanisms for publishing histograms for low dimensional datasets mechanisms for conducting machine learning tasks such as classification regression and clustering and mechanisms for publishing information to answer marginal queries for high dimensional datasets Finally we explain the sparse vector technique including the many errors that have been made in the literature using it The planned Volume 2 will cover usage of DP in other settings including high dimensional datasets graph datasets local setting location privacy and so on We will also discuss various relaxations of DP

Physically Unclonable Functions (PUFs) Christian Wachsmann,Ahmad-Reza Sadeghi,2022-05-31 Today embedded systems are used in many security critical applications from access control electronic tickets sensors and smart devices e g wearables to automotive applications and critical infrastructures These systems are increasingly used to produce and process both security critical and privacy sensitive data which bear many security and privacy risks Establishing trust in the underlying devices and making them resistant to software and hardware attacks is a fundamental requirement in many applications and a challenging yet unsolved task Solutions solely based on software can never ensure their own integrity and trustworthiness while resource constraints and economic factors often prevent the integration of sophisticated security hardware and cryptographic co processors In this context Physically Unclonable Functions PUFs are an emerging and promising technology to establish trust in embedded systems with minimal hardware requirements This book explores the design of trusted embedded systems based on PUFs Specifically it focuses on the integration of PUFs into secure and efficient cryptographic protocols that are suitable for a variety of embedded systems It exemplarily discusses how PUFs can be integrated into lightweight device authentication and attestation schemes which are popular and highly relevant applications of PUFs in practice For the integration of PUFs into secure cryptographic systems it is essential to have a clear view of their properties This book gives an overview of different approaches to evaluate the properties of PUF implementations and presents the results of a large scale security analysis of different PUF types implemented in application specific integrated circuits ASICs To analyze the security of PUF based schemes as is common in modern cryptography it is necessary to have a security framework for PUFs and PUF based systems In this book we give a flavor of the formal modeling of PUFs that is in its beginning and that is still undergoing further refinement in current research The objective of this book is to provide a comprehensive overview of the current state of secure PUF based cryptographic system design and the related challenges and limitations Table of Contents Preface Introduction Basics of Physically Unclonable Functions Attacks on PUFs and PUF based Systems Advanced PUF Concepts PUF Implementations and Evaluation PUF based Cryptographic Protocols Security Model for PUF based Systems Conclusion Terms and Abbreviations Bibliography Authors Biographies

Usable Security Simson Garfinkel,Heather Richter Lipford,2022-06-01 There has been roughly 15 years of research into approaches for aligning research in Human Computer Interaction with computer Security more colloquially known as usable security Although usability and security were once thought to be

inherently antagonistic today there is wide consensus that systems that are not usable will inevitably suffer security failures when they are deployed into the real world Only by simultaneously addressing both usability and security concerns will we be able to build systems that are truly secure This book presents the historical context of the work to date on usable security and privacy creates a taxonomy for organizing that work outlines current research objectives presents lessons learned and makes suggestions for future research

Trust in Social Media Jiliang Tang,Huan Liu,2022-06-01 Social media greatly enables people to participate in online activities and shatters the barrier for online users to create and share information at any place at any time However the explosion of user generated content poses novel challenges for online users to find relevant information or in other words exacerbates the information overload problem On the other hand the quality of user generated content can vary dramatically from excellence to abuse or spam resulting in a problem of information credibility The study and understanding of trust can lead to an effective approach to addressing both information overload and credibility problems Trust refers to a relationship between a trustor the subject that trusts a target entity and a trustee the entity that is trusted In the context of social media trust provides evidence about with whom we can trust to share information and from whom we can accept information without additional verification With trust we make the mental shortcut by directly seeking information from trustees or trusted entities which serves a two fold purpose without being overwhelmed by excessive information i e mitigated information overload and with credible information due to the trust placed on the information provider i e increased information credibility Therefore trust is crucial in helping social media users collect relevant and reliable information and trust in social media is a research topic of increasing importance and of practical significance This book takes a computational perspective to offer an overview of characteristics and elements of trust and illuminate a wide range of computational tasks of trust It introduces basic concepts deliberates challenges and opportunities reviews state of the art algorithms and elaborates effective evaluation methods in the trust study In particular we illustrate properties and representation models of trust elucidate trust prediction with representative algorithms and demonstrate real world applications where trust is explicitly used As a new dimension of the trust study we discuss the concept of distrust and its roles in trust computing

Database Anonymization Josep Domingo-Ferrer,David Sánchez,Jordi Soria-Comas,2022-05-31 The current social and economic context increasingly demands open data to improve scientific research and decision making However when published data refer to individual respondents disclosure risk limitation techniques must be implemented to anonymize the data and guarantee by design the fundamental right to privacy of the subjects the data refer to Disclosure risk limitation has a long record in the statistical and computer science research communities who have developed a variety of privacy preserving solutions for data releases This Synthesis Lecture provides a comprehensive overview of the fundamentals of privacy in data releases focusing on the computer science perspective Specifically we detail the privacy models anonymization methods and utility and risk metrics that have been proposed so far

in the literature Besides as a more advanced topic we identify and discuss in detail connections between several privacy models i e how to accumulate the privacy guarantees they offer to achieve more robust protection and when such guarantees are equivalent or complementary we also explore the links between anonymization methods and privacy models how anonymization methods can be used to enforce privacy models and thereby offer ex ante privacy guarantees These latter topics are relevant to researchers and advanced practitioners who will gain a deeper understanding on the available data anonymization solutions and the privacy guarantees they can offer

Blocks and Chains Aljosha Judmayer, Nicholas Stifter, Katharina Krombholz, Edgar Weippl, 2022-06-01 The new field of cryptographic currencies and consensus ledgers commonly referred to as blockchains is receiving increasing interest from various different communities These communities are very diverse and amongst others include technical enthusiasts activist groups researchers from various disciplines start ups large enterprises public authorities banks financial regulators business men investors and also criminals The scientific community adapted relatively slowly to this emerging and fast moving field of cryptographic currencies and consensus ledgers This was one reason that for quite a while the only resources available have been the Bitcoin source code blog and forum posts mailing lists and other online publications Also the original Bitcoin paper which initiated the hype was published online without any prior peer review Following the original publication spirit of the Bitcoin paper a lot of innovation in this field has repeatedly come from the community itself in the form of online publications and online conversations instead of established peer reviewed scientific publishing On the one side this spirit of fast free software development combined with the business aspects of cryptographic currencies as well as the interests of today s time to market focused industry produced a flood of publications whitepapers and prototypes On the other side this has led to deficits in systematization and a gap between practice and the theoretical understanding of this new field This book aims to further close this gap and presents a well structured overview of this broad field from a technical viewpoint The archetype for modern cryptographic currencies and consensus ledgers is Bitcoin and its underlying Nakamoto consensus Therefore we describe the inner workings of this protocol in great detail and discuss its relations to other derived systems

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In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Reversible Digital Watermarking Theory And Practices Rajat Subhra Chakraborty free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Reversible Digital Watermarking Theory And Practices Rajat Subhra Chakraborty free PDF files of magazines, brochures, and catalogs, Issuu is

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