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Analysis Techniques for Information Security

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

Ravi Sandhu, *Series Editor*

Analysis Techniques For Information Security Somesh Jha

Sourya Joyee De, Daniel Le Métayer



Analysis Techniques For Information Security Somesh Jha:

Analysis Techniques for Information Security Anupam Datta, Somesh Jha, Ninghui Li, David Melski, Thomas Reps, 2022-05-31 Increasingly our critical infrastructures are reliant on computers We see examples of such infrastructures in several domains including medical power telecommunications and finance Although automation has advantages increased reliance on computers exposes our critical infrastructures to a wider variety and higher likelihood of accidental failures and malicious attacks Disruption of services caused by such undesired events can have catastrophic effects such as disruption of essential services and huge financial losses The increased reliance of critical services on our cyberinfrastructure and the dire consequences of security breaches have highlighted the importance of information security Authorization security protocols and software security are three central areas in security in which there have been significant advances in developing systematic foundations and analysis methods that work for practical systems This book provides an introduction to this work covering representative approaches illustrated by examples and providing pointers to additional work in the area Table of Contents Introduction Foundations Detecting Buffer Overruns Using Static Analysis Analyzing Security Policies Analyzing Security Protocols

Analysis Techniques for Information Security Anupam Datta, Somesh Jha, Ninghui Li, David Melski, 2010-11-11 Increasingly our critical infrastructures are reliant on computers We see examples of such infrastructures in several domains including medical power telecommunications and finance Although automation has advantages increased reliance on computers exposes our critical infrastructures to a wider variety and higher likelihood of accidental failures and malicious attacks Disruption of services caused by such undesired events can have catastrophic effects such as disruption of essential services and huge financial losses The increased reliance of critical services on our cyberinfrastructure and the dire consequences of security breaches have highlighted the importance of information security Authorization security protocols and software security are three central areas in security in which there have been significant advances in developing systematic foundations and analysis methods that work for practical systems This book provides an introduction to this work covering representative approaches illustrated by examples and providing pointers to additional work in the area Table of Contents Introduction Foundations Detecting Buffer Overruns Using Static Analysis Analyzing Security Policies Analyzing Security Protocols

Enhancing Information Security and Privacy by Combining Biometrics with Cryptography Sanjay Kanade, Dijana Petrovska-Delacretaz, Bernadette Dorizzi, 2022-05-31 This book deals with crypto biometrics a relatively new and multi disciplinary area of research started in 1998 Combining biometrics and cryptography provides multiple advantages such as revocability template diversity better verification accuracy and generation of cryptographically usable keys that are strongly linked to the user identity In this text a thorough review of the subject is provided and then some of the main categories are illustrated with recently proposed systems by the authors Beginning with the basics this text deals with various aspects of crypto biometrics including review cancelable biometrics cryptographic key generation from biometrics

and crypto biometric key sharing protocols Because of the thorough treatment of the topic this text will be highly beneficial to researchers and industry professionals in information security and privacy

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Cancelable Biometric System

Cryptographic Key Regeneration Using Biometrics

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Introduction to Secure Outsourcing Computation Xiaofeng Chen,2022-05-31 With the rapid development of cloud computing the enterprises and individuals can outsource their sensitive data into the cloud server where they can enjoy high quality data storage and computing services in a ubiquitous manner This is known as the outsourcing computation paradigm Recently the problem for securely outsourcing various expensive computations or storage has attracted considerable attention in the academic community In this book we focus on the latest technologies and applications of secure outsourcing computations Specially we introduce the state of the art research for secure outsourcing some specific functions such as scientific computations cryptographic basic operations and verifiable large database with update The constructions for specific functions use various design tricks and thus result in very efficient protocols for real world applications The topic of outsourcing computation is a hot research issue nowadays Thus this book will be beneficial to academic researchers in the field of cloud computing and big data security

Privacy Risk Analysis Sourya Joyee De,Daniel Le Métayer,2022-05-31 Privacy Risk Analysis fills a gap in the existing literature by providing an introduction to the basic notions requirements and main steps of conducting a privacy risk analysis The deployment of new information technologies can lead to significant privacy risks and a privacy impact assessment should be conducted before designing a product or system that processes personal data However if existing privacy impact assessment frameworks and guidelines provide a good deal of details on organizational aspects including budget allocation resource allocation stakeholder consultation etc they are much vaguer on the technical part in particular on the actual risk assessment task For privacy impact assessments to keep up their promises and really play a decisive role in enhancing privacy protection they should be more precise with regard to these technical aspects This book is an excellent resource for anyone developing and or currently running a risk analysis as it defines the notions of personal data stakeholders risk sources feared events and privacy harms all while showing how these notions are used in the risk analysis process It includes a running smart grids example to illustrate all the notions discussed in the book

Cyber-Physical Security and Privacy in the Electric Smart Grid Bruce McMillin,Thomas Roth,2022-06-01 This book focuses on the combined cyber and physical security issues in advanced electric smart grids Existing standards are compared with classical results and the security and privacy principles of current practice are illustrated The book paints a way for future development of advanced smart grids that operated in a peer to peer fashion thus requiring a different security model Future defenses are proposed that include information flow analysis and attestation systems that rely on fundamental physical properties of the smart grid system

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

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

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

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