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RESEARCH DIRECTIONS IN DATABASE SECURITY, II

SRI International

Teresa F. Lunt

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Research Directions In Database Security

Teresa F. Lunt



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Research Directions in Database Security Teresa F. Lunt, 2012-12-06 Many commercial and defense applications require a database system that protects data of different sensitivities while still allowing users of different clearances to access the system This book is a collection of papers covering aspects of the emerging security technology for multilevel database systems It contains reports on such landmark systems as SeaView LDV ASD Secure Sybase the UNISYS secure distributed system and the secure entity relationship system GTERM Much of the research is concerned with the relational model although security for the entity relationship and object oriented models of data are also discussed Because the field is so new it has been extremely difficult to learn about the research going on in this area until now This book will be invaluable to researchers and system designers in database systems and computer security It will also be of interest to data users and custodians who are concerned with the security of their information This book can also be used as a text for an advanced topics course on computer security in a computer science curriculum

Research Directions in Database Security Teresa F Lunt, 1992-04-16

Research Directions in Data and Applications Security XVIII Csilla Farkas, Pierangela Samarati, 2006-04-11 As Information Technology becomes a vital part of our everyday activities ranging from personal use to government and defense applications the need to develop high assurance systems increases Data and applications security and privacy are crucial elements in developing such systems Research Directions in Data and Applications Security XVIII presents original unpublished research results practical experiences and innovative ideas in the field of data and applications security and privacy Topics presented in this volume include Database theory Inference control Data protection techniques Distributed systems Access control models Security policy Design and management Privacy Network security This book is the eighteenth volume in the series produced by the International Federation for Information Processing IFIP Working Group 11.3 on Data and Applications Security It contains twenty three papers and two invited talks that were presented at the Eighteenth Annual IFIP WG 11.3 Conference on Data and Applications Security which was sponsored by IFIP and held in Sitges Catalonia Spain in July 2004 Research Directions in Data and Applications Security XVIII is a high quality reference volume that addresses several aspects of information protection and is aimed at researchers educators students and developers

Research Directions in Data and Applications Security Ehud Gudes, Sujeet Sheno, 2013-03-19 Research Directions in Data and Applications Security describes original research results and innovative practical developments all focused on maintaining security and privacy in database systems and applications that pervade cyberspace The areas of coverage include Role Based Access Control Database Security XML Security Data Mining and Inference Multimedia System Security Network Security Public Key Infrastructure Formal Methods and Protocols Security and Privacy

Research Directions in Database Security, II., 1990 This report describes the final results of a workshop on database security held 15-18 May 1989 in Bethlehem New Hampshire The workshop featured several short presentations on technology areas

including trusted applications security checking with Prolog extensions inference aggregation auditing Discretionary Access Control and operating system support Vender activities and new product developments in multilevel secure database management systems technology were also presented Finally a major portion of the workshop was devoted to discussion and presentation of database design alternatives for multilevel systems with emphasis on graphical presentation inference aggregation context and content dependent classification and modeling of classification constraints

Handbook of Database Security Michael Gertz,Sushil Jajodia,2007-12-03 Handbook of Database Security Applications and Trends provides an up to date overview of data security models techniques and architectures in a variety of data management applications and settings In addition to providing an overview of data security in different application settings this book includes an outline for future research directions within the field The book is designed for industry practitioners and researchers and is also suitable for advanced level students in computer science

Database Security IX David L. Spooner,Steven Demurjian,John Dobson,2016-01-09 This book documents progress and presents a broad perspective of recent developments in database security It also discusses in depth the current state of the art in research in the field A number of topics are explored in detail including current reseearch in database security and the state of security controls in present commercial database systems Database Security IX will be essential reading for advanced students working in the area of database security research and development in for industrial researchers in this technical area

Research Directions in Database Security IV. ,1993 This report contains the papers written for the Fourth RADC Database Security Workshop held in Little Compton Rhode Island 22 25 April 1991 The papers reflect a range of research topics from the semantics of polyinstantiation to the problems of actually building trusted database management systems The goal of this workshop was to provide a forum for the discussion of the work in progress to clarify and amplify ideas and to advance the multilevel database security research agenda Multilevel secure database management systems

Data Security And Privacy Protection: A Comprehensive Guide Anyu Wang,2025-03-05 This book provides a comprehensive overview of data security and privacy protection with expert systematic coverage of related topics It starts with the design of system architecture and key controls under the scope and objectives of data security Then based on an in depth analysis of data security risks and challenges it provides the principles for the regulatory requirements for privacy protection and implementation as well as industry best practices Moving onto applications in networks this book expounds on the data security of information technology IT telecommunications the Cloud and the Internet of Things IoT Emerging technologies such as artificial intelligence AI blockchain and 5G are in turn examined as the frontier of theoretical and technical development in data security This work is a culmination of the author s more than 20 years of experience in the field of cybersecurity and data security As the chief cybersecurity architect of a large Forbes 500 company he possesses a comprehensive knowledge of cybersecurity theory enriched by diverse practical experience This book is a useful textbook for

students of cyberspace security computer and information technology majors in colleges and universities It is also suitable as a reference for practitioners and engineers in information security cloud computing and similar disciplines

Computational and Experimental Simulations in Engineering Kun Zhou,2024-12-02 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 30th International Conference on Computational bioengineering geotechnical engineering offshore multi scale structural integrity materials design and computer modeling methods in engineering The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science Panda, Mrutyunjaya,Misra, Harekrishna,2021-01-08 In today s digital world the huge amount of data being generated is unstructured messy and chaotic in nature Dealing with such data and attempting to unfold the meaningful information can be a challenging task Feature engineering is a process to transform such data into a suitable form that better assists with interpretation and visualization Through this method the transformed data is more transparent to the machine learning models which in turn causes better prediction and analysis of results Data science is crucial for the data scientist to assess the trade offs of their decisions regarding the effectiveness of the machine learning model implemented Investigating the demand in this area today and in the future is a necessity The Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science provides an in depth analysis on both the theoretical and the latest empirical research findings on how features can be extracted and transformed from raw data The chapters will introduce feature engineering and the recent concepts methods and applications with the use of various data types as well as examine the latest machine learning applications on the data While highlighting topics such as detection tracking selection techniques and prediction models using data science this book is ideally intended for research scholars big data scientists project developers data analysts and computer scientists along with practitioners researchers academicians and students interested in feature engineering and its impact on data

Big Data Analytics for Internet of Things Tausifa Jan Saleem,Mohammad Ahsan Chishti,2021-04-20 BIG DATA ANALYTICS FOR INTERNET OF THINGS Discover the latest developments in IoT Big Data with a new resource from established and emerging leaders in the field Big Data Analytics for Internet of Things delivers a comprehensive overview of all aspects of big data analytics in Internet of Things IoT systems The book includes discussions of the enabling technologies of IoT data analytics types of IoT data analytics challenges in IoT data analytics demand for IoT data analytics computing platforms analytical tools privacy and security The distinguished editors have included resources that address key techniques in the analysis of IoT data The book demonstrates how to select the appropriate techniques to unearth valuable insights from IoT data and offers novel designs for IoT systems With an abiding focus on practical strategies with concrete applications for data analysts and IoT

professionals Big Data Analytics for Internet of Things also offers readers A thorough introduction to the Internet of Things including IoT architectures enabling technologies and applications An exploration of the intersection between the Internet of Things and Big Data including IoT as a source of Big Data the unique characteristics of IoT data etc A discussion of the IoT data analytics including the data analytical requirements of IoT data and the types of IoT analytics including predictive descriptive and prescriptive analytics A treatment of machine learning techniques for IoT data analytics Perfect for professionals industry practitioners and researchers engaged in big data analytics related to IoT systems Big Data Analytics for Internet of Things will also earn a place in the libraries of IoT designers and manufacturers interested in facilitating the efficient implementation of data analytics strategies

Cybersecurity Issues and Challenges in the Drone Industry

Shah, Imdad Ali, Jhanjhi, Noor Zaman, 2024-02-26 Cybersecurity Issues and Challenges in the Drone Industry is a comprehensive exploration of the critical cybersecurity problems faced by the rapidly expanding drone industry With the widespread adoption of drones in military commercial and recreational sectors the need to address cybersecurity concerns has become increasingly urgent In this book cybersecurity specialists collaborate to present a multifaceted approach to tackling the unique challenges posed by drones They delve into essential topics such as establishing robust encryption and authentication systems conducting regular vulnerability assessments enhancing software security advocating industry wide standards and best practices and educating drone users about the inherent cybersecurity risks As drones or unmanned aerial vehicles UAVs gain popularity and are deployed for various applications ranging from aerial photography and surveillance to delivery services and infrastructure inspections this book emphasizes the criticality of safeguarding the security integrity and privacy of drone systems and the data they handle It highlights the growing vulnerability of drones to cybersecurity threats as these devices become increasingly connected and integrated into our everyday lives This book is an invaluable resource for drone manufacturers government agencies regulators cybersecurity professionals and academia and research institutions invested in understanding and mitigating the cybersecurity risks in the drone industry

Risks and Security of Internet and Systems Slim Kallel, Frédéric Cuppens, Nora Cuppens-Boulahia, Ahmed Hadj Kacem, 2020-02-28 This book constitutes the revised selected papers from the 14th International Conference on Risks and Security of Internet and Systems CRiSIS 2019 held in Hammamet Tunisia in October 2019 The 20 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 64 submissions They cover diverse research themes that range from classic topics such as risk analysis and management access control and permission secure embedded systems network and cloud security information security policy data protection and machine learning for security distributed detection system and blockchain

Fraud Prevention, Confidentiality, and Data Security for Modern Businesses Naim, Arshi, Malik, Praveen Kumar, Zaidi, Firasat Ali, 2023-01-20 The modern business world faces many new challenges in preserving its confidentiality and data from online attackers Further it also faces a struggle with preventing fraud These challenges threaten businesses internally and

externally and can cause huge losses It is essential for business leaders to be up to date on the current fraud prevention confidentiality and data security to protect their businesses Fraud Prevention Confidentiality and Data Security for Modern Businesses provides examples and research on the security challenges practices and blueprints for today s data storage and analysis systems to protect against current and emerging attackers in the modern business world It includes the organizational strategic and technological depth to design modern data security practices within any organization Covering topics such as confidential communication information security management and social engineering this premier reference source is an indispensable resource for business executives and leaders entrepreneurs IT managers security specialists students and educators of higher education librarians researchers and academicians **Security, Privacy, and Forensics**

Issues in Big Data Joshi, Ramesh C.,Gupta, Brij B.,2019-08-30 With the proliferation of devices connected to the internet and connected to each other the volume of data collected stored and processed is increasing every day which brings new challenges in terms of information security As big data expands with the help of public clouds traditional security solutions tailored to private computing infrastructures and confined to a well defined security perimeter such as firewalls and demilitarized zones DMZs are no longer effective New security functions are required to work over the heterogenous composition of diverse hardware operating systems and network domains Security Privacy and Forensics Issues in Big Data is an essential research book that examines recent advancements in big data and the impact that these advancements have on information security and privacy measures needed for these networks Highlighting a range of topics including cryptography data analytics and threat detection this is an excellent reference source for students software developers and engineers security analysts IT consultants academicians researchers and professionals **Big Data Intelligence and Computing**

Ching-Hsien Hsu,Mengwei Xu,Hung Cao,Hojjat Baghban,A. B. M. Shawkat Ali,2023-04-30 This book constitutes the proceedings of the International Conference on Big Data Intelligence and Computing DataCom 2022 which took place in Denarau Island Fiji in December 2022 The 30 full papers included in this volume were carefully reviewed and selected from 88 submissions The papers detail big data analytics solutions distributed computation paradigms on demand services autonomic systems and pervasive applications **Big Data and Security**

Yuan Tian,Tinghuai Ma,Muhammad Khurram Khan,Victor S. Sheng,Zhaoqing Pan,2022-03-09 This book constitutes the refereed proceedings of the Third International Conference on Big Data and Security ICBDS 2021 held in Shenzhen China in November 2021 The 46 revised full papers and 13 short papers were carefully reviewed and selected out of 221 submissions The papers included in this volume are organized according to the topical sections on cybersecurity and privacy big data blockchain and internet of things and artificial intelligence machine learning security **Encyclopedia of Information Ethics and Security**

Quigley, Marian,2007-05-31 Rapid technological advancement has given rise to new ethical dilemmas and security threats while the development of appropriate ethical codes and security measures fail to keep pace which makes the education of computer

users and professionals crucial The Encyclopedia of Information Ethics and Security is an original comprehensive reference source on ethical and security issues relating to the latest technologies Covering a wide range of themes this valuable reference tool includes topics such as computer crime information warfare privacy surveillance intellectual property and education This encyclopedia is a useful tool for students academics and professionals

Data Protection from Insider Threats Elisa Bertino, 2022-05-31 As data represent a key asset for today's organizations the problem of how to protect this data from theft and misuse is at the forefront of these organizations' minds Even though today several data security techniques are available to protect data and computing infrastructures many such techniques such as firewalls and network security tools are unable to protect data from attacks posed by those working on an organization's inside These insiders usually have authorized access to relevant information systems making it extremely challenging to block the misuse of information while still allowing them to do their jobs This book discusses several techniques that can provide effective protection against attacks posed by people working on the inside of an organization Chapter One introduces the notion of insider threat and reports some data about data breaches due to insider threats Chapter Two covers authentication and access control techniques and Chapter Three shows how these general security techniques can be extended and used in the context of protection from insider threats Chapter Four addresses anomaly detection techniques that are used to determine anomalies in data accesses by insiders These anomalies are often indicative of potential insider data attacks and therefore play an important role in protection from these attacks Security information and event management SIEM tools and fine grained auditing are discussed in Chapter Five These tools aim at collecting analyzing and correlating in real time any information and event that may be relevant for the security of an organization As such they can be a key element in finding a solution to such undesirable insider threats Chapter Six goes on to provide a survey of techniques for separation of duty SoD SoD is an important principle that when implemented in systems and tools can strengthen data protection from malicious insiders However to date very few approaches have been proposed for implementing SoD in systems In Chapter Seven a short survey of a commercial product is presented which provides different techniques for protection from malicious users with system privileges such as a DBA in database management systems Finally in Chapter Eight the book concludes with a few remarks and additional research directions

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