modelling and analysis of

security

protocols

Peter Ryan, Steve Schneider, Michael Goldsmith, Gavin Lowe and Bill Roscoe

Modelling And Analysis Of Security Protocols

Tatsuaki Okamoto, Jianying Zhou

Modelling And Analysis Of Security Protocols:

The Modelling and Analysis of Security Protocols Peter Ryan, Steve A. Schneider, 2001 An introduction to CSP Modelling security protocols in CSP Expressing protocol goals Overview of FDR Casper Encoding protocols and intruders for FDR Theorem proving Simplifying transformations Other approaches Prospects and wider issues Modelling and Analysis of Security Protocols G. Lowe, Secure Transaction Protocol Analysis Qingfeng Chen, Chengqi Zhang, Shichao Zhang, 2008-07-30 The present volume arose from the need for a comprehensive coverage of the state of the art in security protocol analysis It aims to serve as an overall course aid and to provide self study material for researchers and students in formal methods theory and applications in e commerce data analysis and data mining The volume will also be useful to anyone interested in secure e commerce The book is organized in eight chapters covering the main approaches and tools in formal methods for security protocol analysis It starts with an introductory chapter presenting the fundamentals and background knowledge with respect to formal methods and security protocol analysis Chapter 2 provides an overview of related work in this area including basic concepts and terminology Chapters 3 and 4 show a logical framework and a model checker for analyzing secure transaction protocols Chapter 5 explains how to deal with uncertainty issues in secure messages including inconsistent messages and conflicting beliefs in messages Chapter 6 integrates data mining with security protocol analysis and Chapter 7 develops a new technique for detecting collusion attack in security protocols Chapter 8 gives a summary of the chapters and presents a brief discussion of some emerging issues in the field *Automated Reasoning for* Security Protocol Analysis and Issues in the Theory of Security Alessandro Armando, Gavin Lowe, 2010-10-08 This book constitutes the proceedings of the Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security held in Paphos Cyprus in March 2010 Analysis of Real-World Security Protocols in a Universal Composability Framework Max Tuengerthal, 2013 Security protocols employed in practice are used in our everyday life and we heavily depend on their security The complexity of these protocols still poses a big challenge on their comprehensive analysis To cope with this complexity a promising approach is modular security analysis based on universal composability frameworks such as Canetti s UC model This appealing approach has however only very rarely been applied to the analysis of existing real world protocols Either the analysis was not fully modular or it could only be applied to idealized variants of the protocols. The main goal of this thesis therefore is to push modular protocol analysis as far as possible but without giving up on accurate modeling Our main contributions in a nutshell An ideal functionality for symmetric key cryptography that provides a solid foundation for faithful composable cryptographic analysis of real world security protocols A computational soundness result of formal analysis for key exchange protocols that use symmetric encryption Novel universal and joint state composition theorems that are applicable to the analysis of real world security protocols Case studies on several security protocols SSL TLS IEEE 802 11i WPA2 SSH IPsec and EAP PSK We showed that our new composition theorems can be used

for a faithful modular analysis of these protocols In addition we proved composable security properties for two central protocols of the IEEE standard 802 11i namely the 4 Way Handshake Protocol and the CCM Protocol This constitutes the first rigorous cryptographic analysis of these protocols While our applications focus on real world security protocols our theorems models and techniques should be useful beyond this domain Foundations of Security Analysis and Design II Riccardo Focardi, Roberto Gorrieri, 2004-01-24 Security is a rapidly growing area of computer science with direct and increasing relevance to real life applications such as Internet transactions e commerce information protection network and systems security etc Foundations for the analysis and design of security features of such applications are badly needed in order to validate and prove their correctness This book presents thoroughly revised versions of six tutorial lectures given by leading researchers during two International Schools on Foundations of Security Analysis and Design FOSAD 2001 2002 held in Bertinoro Italy in September 2001 and September 2002 The lectures are devoted to Formal Approaches to Approximating Noninterference Properties The Key Establishment Problem Name Passing Calculi and Cryptoprimitives Classification of Security Properties Network Security Cryptographic Algorithms for Multimedia Traffic Security for Mobility and Analyzing Security Protocols with Tamarin David Basin, Cas Cremers, Jannik Dreier, Ralf Sasse, 2025-07-27 The Tamarin prover is an open source analysis tool for cryptographic protocols Given a specification of a protocol possible adversaries and the desired security properties Tamarin either verifies the protocol or provides counter examples witnessing attacks Tamarin is a robust and powerful analysis tool it has been under development for over a decade and has reached a state of maturity where it can be applied to model and analyze a wide range of real world cryptographic protocols It is now one of the leading tools in this domain with a wide and active user community spanning both academia and industry. The objective of this book is to help both researchers and practitioners to gain a general understanding of how Formal Methods tools like Tamarin can be used to analyze and improve the quality of real world protocols Moreover we specifically showcase the Tamarin prover and provide guidance on its usage In this sense this book provides a user's manual for Tamarin But it goes far beyond that highlighting Tamarin's underlying theory and its use in modeling and applications **Foundations and Applications of** Security Analysis Pierpaolo Degano, Luca Viganò, 2009-08-31 This book constitutes the thoroughly refereed post conference proceedings of the Joint Workshop on Automated Reasoning for Security Protocol Analysis and Issues in the Theory of Security ARSPA WITS 2009 held in York UK in March 2009 in association with ETAPS 2009 The 12 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 27 submissions. The papers feature topics including formal specification analysis and design of security protocols and their applications the formal definition of various aspects of security such as access control mechanisms mobile code security and denial of service attacks the modeling of information flow and its application to confidentiality policies system composition and covert channel analysis System Analysis and Modeling Daniel Amyot, 2005-02-16 This book constitutes the thoroughly refereed postproceedings of the 4th

International Workshop on SDL and MSC SAM 2004 held in Ottawa Canada in June 2004 The 19 revised full papers presented were carefully selected during two rounds of reviewing and revision from initially 46 submissions. The papers are organized in topical sections on SDL and eODL evolution of languages requirements and MSC security SDL and modeling Logics in Artificial Intelligence Jose, Julio Alferes, Joao Leite, 2004-09-10 This book constitutes the and experience refereed proceedings of the 9th European Conference on Logics in Artificial Intelligence JELIA 2004 held in Lisbon Portugal in September 2004 The 52 revised full papers and 15 revised systems presentation papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from a total of 169 submissions. The papers are organized in topical sections on multi agent systems logic programming and nonmonotonic reasoning reasoning under uncertainty logic programming actions and causation complexity description logics belief revision modal spatial and temporal logics theorem proving and applications Information and Communications Security Tatsuaki Okamoto, Jianying Zhou, 2003-06-30 ICICS 2001 the Third International Conference on Information and Commu cations Security was held in Xi an China 13 16 November 2001 Among the preceding conferences ICICS 97 was held in Beijing China 11 14 November 1997 and ICICS 99 in Sydney Australia 9 11 November 1999 The ICICS 97 and ICICS 99 proceedings were released as volumes 1334 and 1726 of Springer Verlag s Lecture Notes in Computer Science series ICICS 2001 was sponsored by the Chinese Academy of Sciences CAS the tional Natural Science Foundation of China and the China Computer Fe ration The conference was organized by the Engineering Research Center for Information Security Technology of the Chinese Academy of Sciences ERCIST CAS in co operation with the International Association for Cryptologic Re arch IACR the International Communications and Information Security sociation ICISA and the Asiacrypt Steering Committee The format of ICICS 2001 was selected to cover the complete spectrum of formation and communications security and to promote participant interaction. The sessions were designed to promote interaction between the major topics of the conference theoretical foundations of security secret sharing network curity authentication and identi cation boolean functions and stream ciphers security evaluation signatures block ciphers and public key systems infor tion hiding protocols and their analysis and cryptanalysis The 29 member Program Committee considered 134 submissions from 23 di rent countries and regions among them 56 papers were accepted for presentation

Finite-state Analysis of Security Protocols Vitaly Shmatikov,2000 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 Semantics and Verification of Security Protocols Cas Cremers, Sjouke Mauw, 2012-10-30 Security protocols are widely used to ensure secure communications over insecure networks such as the internet or airwayes These protocols use strong cryptography to prevent intruders from reading or modifying the messages However using cryptography is not enough to ensure their correctness Combined with their typical small size which suggests that one could easily assess their correctness this often results in incorrectly designed protocols The authors present a methodology for formally describing security protocols and their environment This methodology includes a model for describing protocols their execution model and the intruder model The models are extended with a number of well defined security properties which capture the notions of correct protocols and secrecy of data The methodology can be used to prove that protocols satisfy these properties Based on the model they have developed a tool set called Scyther that can automatically find attacks on security protocols or prove their correctness In case studies they show the application of the methodology as well as the effectiveness of the analysis tool The methodology's strong mathematical basis the strong separation of concerns in the model and the accompanying tool set make it ideally suited both for researchers and graduate students of information security or formal methods and for advanced professionals designing critical security protocols Foundations of Security Analysis and Design III Alessandro Aldini, Roberto Gorrieri, Fabio Martinelli, 2005-09-12 The increasing relevance of security to real life applications such as electronic commerce and Internet banking is attested by the fast growing number of search groups events conferences and summer schools that address the study of foundations for the analysis and the design of security aspects The Int national School on Foundations of Security Analysis and Design FOSAD see http www sti uniurb it events fosad has been one of the foremost events tablishedwiththegoalofdisseminatingknowledgeinthiscriticalarea especially for young researchers approaching the eld and graduate students coming from less favoured and non leading countries The FOSAD school is held annually at the Residential Centre of Bertinoro http www ceub it in the fascinating setting of a former convent and ep copal fortress that has been transformed into a modern conference facility with computing services and Internet access Since the rst school in 2000 FOSAD hasattractedmorethan 250 participants and 50 lecturers from allover the world A collection of tutorial lectures from FOSAD 2000 was published in Springer's LNCS volume 2171 Some of the tutorials given at the two successive schools FOSAD 2001 and 2002 are gathered in a second volume LNCS 2946 To c tinue this tradition the present volume collects a set of tutorials from the fourth FOSAD held in 2004 and from FOSAD 2005 Practical Applications of

Performance Modelling of Security Protocols Using PEPA Yishi Zhao, University of Newcastle upon Tyne. Computing Foundations of Security Analysis and Design VII Alessandro Aldini, Javier Lopez, Fabio Science.2011 Martinelli, 2014-08-04 FOSAD has been one of the foremost educational events established with the goal of disseminating knowledge in the critical area of security in computer systems and networks Over the years both the summer school and the book series have represented a reference point for graduate students and young researchers from academia or industry interested to approach the field investigate open problems and follow priority lines of research This book presents thoroughly revised versions of nine tutorial lectures given by leading researchers during three International Schools on Foundations of Security Analysis and Design FOSAD held in Bertinoro Italy in September 2012 and 2013 The topics covered in this book include model based security automatic verification of secure applications information flow analysis cryptographic voting systems encryption in the cloud and privacy preservation Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification Thierry Lecomte, Ralf Pinger, Alexander Romanovsky, 2016-06-14 This book constitutes the refereed proceedings of the FirstInternational Conference on Reliability Safety and Security of RailwaySystems RSSRail 2016 held in Paris France in June 2016 The 15 revised full papers presented were carefully reviewed and selected from 36 initial submissions. The papers cover a wide range of topics including failure analysis interlocking verification formalsystem specification and refinement security analysis of ERTMS safetyverification formalisation of requirements proof automation operational security railway system reliability risk assessment for ERTMS and verification of EN 50128 safety requirements Reliability, Safety, and Security of Railway Systems. Modelling, Analysis, Verification, and Certification Simon Collart-Dutilleul, Anne E. Haxthausen, Thierry Lecomte, 2022-05-19 This book constitutes the refereed proceedings of the 4th International Conference on Reliability Safety and Security of Railway Systems RSSRail 2022 held in Paris France in June 2022 The 16 full papers presented in this book were carefully reviewed and selected from numerous submissions They cover a range of topics including railways system and infrastructure advance modelling scheduling and track planning safety process and validation modelling formal verification and security Formal Models and Techniques for Analyzing Security Protocols Véronique Cortier, Steve Kremer, 2014-11-13 Provides the reader with a tutorial on some modern techniques to model and automatically analyze security protocols. The tutorial can be used as a basis for a master or graduate course on the topic or as a primer for researchers from different areas to get an overview of the kinds of techniques that are available

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