Jan Jürjens

Secure Systems Development with UML

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Bogdan Ksiezopolski

Secure Systems Development With Uml:

Secure Systems Development with UML Jan Jürjens,2005-11-18 Attacks against computer systems can cause considerable economic or physical damage High quality development of security critical systems is difficult mainly because of the conflict between development costs and verifiable correctness J rjens presents the UML extension UMLsec for secure systems development It uses the standard UML extension mechanisms and can be employed to evaluate UML specifications for vulnerabilities using a formal semantics of a simplified fragment of UML Established rules of security engineering can be encapsulated and hence made available even to developers who are not specialists in security As one example J rjens uncovers a flaw in the Common Electronic Purse Specification and proposes and verifies a correction With a clear separation between the general description of his approach and its mathematical foundations the book is ideally suited both for researchers and graduate students in UML or formal methods and security and for advanced professionals writing critical applications **Software Engineering for Secure Systems: Industrial and Research Perspectives** Mouratidis, H.,2010-10-31 This book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to design to testing to implementation Provided by publisher **Web Services Security Development and Architecture: Theoretical and Practical Issues** Guti rrez, Carlos A.,Fern ndez-Medina, Eduardo,Piattini, Mario,2010-01-31 This book s main objective is to present some of the key approaches research lines and challenges that exist in the field of security in SOA systems Provided by publisher **Engineering Secure Software and Systems** Fabio Massacci,Dan Wallach,Nicola Zannone,2010-01-27 This book constitutes the refereed proceedings of the Second International Symposium on Engineering Secure Software and Systems ESSoS 2010 held in Pisa Italy in February 2010 The 9 revised full papers presented together with 8 ideas papers were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on attack analysis and prevention policy verification and enforcement and secure system and software development **Advanced Information Systems Engineering** Pascal van Eck,Jaap Gordijn,Roel J. Wieringa,2009-05-25 This book constitutes the refereed proceedings of the 21st International Conference on Advanced Information Systems Engineering CAiSE 2009 held in Amsterdam The Netherlands on June 8 12 2009 The 36 papers presented in this book together with 6 keynote papers were carefully reviewed and selected from 230 submissions The topics covered are model driven engineering conceptual modeling quality and data integration goal oriented requirements engineering requirements and architecture service orientation Web service orchestration value driven modeling workflow business process modeling and requirements engineering *UML 2002 - The Unified Modeling Language: Model Engineering, Concepts, and Tools* Jean-Marc Jezequel,Heinrich Hussman,Stephen Cook,2003-08-02 Five years on from its adoption in 1997 by the Object Management Group OMG the Uni ed Modeling Language is the de facto standard for creating agrammatic models of software systems More than 100 books

have been written about UML and it is taught to students throughout the world The de nition of UML version 2 is well under way and should be largely completed within the year This will not only improve and enhance UML itself including standard facilities for diagram interchange but also make it fully integrated with other modeling technologies from the OMG such as Meta Object Facility MOF and XML Metadata Interchange XMI The Object Constraint Language which has become an important vehicle for communicating detailed insights between UML researchers and practitioners will have a much expanded speci cation and be better integrated with the UML The popularity of UML signi es the possibility of a shift of immense prop tions in the practice of software development at least comparable to the shift from the use of assembly language to third generation or high level p gramming languages We dream of describing the behavior of software systems in terms of models closely related to the needs of the enterprise being served and being able to routinely translate these models automatically into executing p grams on distributed computing systems The OMG is promoting Model Driven Architecture MDA as a signi cant step towards this vision and the MDA c cept has received considerable support within the IT industry

Engineering Secure Software and Systems Jan Jürjens,Ben Livshits,Riccardo Scandariato,2013-02-26 This book constitutes the refereed proceedings of the 5th International Symposium on Engineering Secure Software and Systems ESSoS 2013 held in Paris France in February March 2013 The 13 revised full papers presented together with two idea papers were carefully reviewed and selected from 62 submissions The papers are organized in topical sections on secure programming policies proving formal methods and analyzing   **Electronic Services: Concepts, Methodologies, Tools and Applications** Management Association, Information Resources,2010-05-31 With the increasing reliance on digital means to transact goods that are retail and communication based e services continue to develop as key applications for business finance industry and innovation Electronic Services Concepts Methodologies Tools and Applications is an all inclusive research collection covering the latest studies on the consumption delivery and availability of e services This multi volume book contains over 100 articles making it an essential reference for the evolving e services discipline

Component-Based Software Development for Embedded Systems Colin Atkinson,2005-12-12 This book provides a good opportunity for software engineering practitioners and researchers to get in sync with the current state of the art and future trends in component based embedded software research The book is based on a selective compilation of papers that cover the complete component based embedded software spectrum ranging from methodology to tools Methodology aspects covered by the book include functional and non functional specification validation verification and component architecture As tools are a critical success factor in the transfer from academia generated knowledge to industry ready technology an important part of the book is devoted to tools This state of the art survey contains 16 carefully selected papers organised in topical sections on specification and verification component compatibility component architectures implementation and tool support as well as non functional properties   **Security and Dependability for Ambient Intelligence** George

Spanoudakis,Spyros Kokolakis,2009-04-21 Security and Dependability for Ambient Intelligence is the primary publication of the SERENITY approach which provides security and dependability S D solutions for dynamic highly distributed heterogeneous systems The objective of SERENITY is to enhance the security and dependability of ambient intelligence systems by providing a framework supporting the automated integration configuration monitoring and adaptation of security and dependability mechanisms An edited volume contributed by world leaders in the field this book covers the problems that the highly dynamic and heterogeneous nature of ambient intelligence systems poses to security and dependability and presents solutions to these problems Security and Dependability for Ambient Intelligence is designed for researchers and practitioners focusing on the dynamic integration deployment and verification of security and dependability solutions in highly distributed systems incorporating ambient intelligence features It is also suitable as a reference or secondary text for advanced level students in computer science and computer or electrical engineering   Engineering Secure Software and Systems Úlfar Erlingsson,Roel Wieringa,Nicola Zannone,2011-01-24 This book constitutes the refereed proceedings of the Third International Symposium on Engineering Secure Software and Systems ESSoS 2011 held in Madrid Italy in February 2011 The 18 revised full papers presented together with 3 idea papers were carefully reviewed and selected from 63 submissions The papers are organized in topical sections on model based security tools and mechanisms Web security security requirements engineering and authorization   Global Computing Corrado Priami,Paola Quaglia,2005-02-09 This book constitutes the thoroughly refereed post proceedings of the IST FET International Workshop on Global Computing GC 2004 held in Rovereto Italy in March 2004 The 18 revised full papers presented were carefully selected during two rounds of reviewing and improvement from numerous submissions Among the topics covered are programming environments dynamic reconfiguration resource guarantees peer to peer networks analysis of systems and resources resource sharing and security as well as foundational calculi for mobility   Formal Methods for Components and Objects ,2007   *Formal Methods for Components and Objects* Frank S. de Boer,Marcello M. Bonsangue,Susanne Graf,Willem-Paul de Roever,2006-09-30 This book presents 19 revised invited keynote lectures and revised tutorial lectures given at the 4th International Symposium on Formal Methods for Components and Objects FMCO 2005 Amsterdam November 2005 The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component based systems and object systems   Security-Aware Systems Applications and Software Development Methods Khan, Khaled M.,2012-05-31 With the prevalence of cyber crime and cyber warfare software developers must be vigilant in creating systems which are impervious to cyber attacks Thus security issues are an integral part of every phase of software development and an essential component of software design Security Aware Systems Applications and Software Development Methods facilitates the promotion and understanding of the technical as well as managerial issues related to secure software systems and their development

practices This book targeted toward researchers software engineers and field experts outlines cutting edge industry solutions in software engineering and security research to help overcome contemporary challenges **Multilevel Modeling of Secure Systems in QoP-ML** Bogdan Ksiezopolski,2015-06-10 In order to perform effective analysis of today s information security systems numerous components must be taken into consideration This book presents a well organized consistent solution created by the author which allows for precise multilevel analysis of information security systems and accounts for all of the significant details Enabling t **Foundations and Practice of Security** Mohamed Mosbah,Florence Sèdes,Nadia Tawbi,Toufik Ahmed,Nora Boulahia-Cuppens,Joaquin Garcia-Alfaro,2024-04-24 This book constitutes the refereed proceedings of the 16th International Symposium on Foundations and Practice of Security FPS 2023 held in Bordeaux France during December 11 13 2023 The 27 regular and 8 short papers presented in this book were carefully reviewed and selected from 80 submissions The papers have been organized in the following topical sections Part I AI and cybersecurity security analysis phishing and social network vulnerabilities and exploits network and system threat malware analysis Part II security design short papers *Computer Security - ESORICS 2003* Einar Snekkenes,2003-09-29 This book constitutes the refereed proceedings of the 8th European Symposium on Research in Computer Security ESORICS 2003 held in Gjovik Norway in October 2003 The 19 revised full papers presented were carefully reviewed and selected from 114 submissions Among the topics addressed are signature control access control key exchange broadcast protocols privacy preserving technologies attack analysis electronic voting identity control authentication security services smart card security formal security protocols analysis and intrusion detection **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 hasattractedmorethan250participantsand50lecturersfromallovertheworld 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 fromthe fourth FOSAD held in 2004 and from FOSAD 2005 **Systems Engineering in Context** Stephen Adams,Peter A. Beling,James H. Lambert,William T. Scherer,Cody H. Fleming,2019-06-21 This volume chronicles the 16th

Annual Conference on System Engineering Research CSER held on May 8 9 2018 at the University of Virginia Charlottesville Virginia USA The CSER offers researchers in academia industry and government a common forum to present discuss and influence systems engineering research It provides access to forward looking research from across the globe by renowned academicians as well as perspectives from senior industry and government representatives Co founded by the University of Southern California and Stevens Institute of Technology in 2003 CSER has become the preeminent event for researchers in systems engineering across the globe Topics include though are not limited to the following Systems in context Formative methods requirements Integration deployment assurance Human Factors Safety and Security Decisions Control Systems Modeling Optimization Multiple Objectives Synthesis Risk and resiliency Collaborative autonomy Coordination and distributed decision making Prediction Prescriptive modeling state estimation Stochastic approximation stochastic optimization and control Integrative Data engineering Sensor Management Design of Experiments

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