

Jan Jürjens

# Secure Systems Development with UML

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**Jan Jürjens**



## **Secure Systems Development With Uml:**

Secure Systems Development with UML Jan Jürjens, 2005 The extension UMLsec of the Unified Modeling Language for secure systems development is presented in this text The first part is accessible to anyone with a basic background on object oriented systems The second part covers the mathematical tools needed to use the UMLsec approach to verify UML specifications against security requirements

**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 Jürjens 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 Jürjens 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

**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

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 Unified 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 **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

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