Record Nr. UNINA9910806173403321 Software system reliability and security / / edited by Manfred Broy, **Titolo** Johannes Grunbauer and Tony Hoare Pubbl/distr/stampa Amsterdam; ; Washington, DC, : IOS Press, c2007 **ISBN** 6610934835 1-280-93483-2 9786610934836 1-4294-9223-6 1-60750-236-4 600-00-0561-X 1-4337-0874-4 Edizione [1st ed.] Descrizione fisica 1 online resource (428 p.) Collana NATO security through science series. Sub-series D, Information and communication security, , 1574-5589;; v. 9 Altri autori (Persone) BrovM. <1949-> GrunbauerJohannes HoareC. A. R <1934-> (Charles Antony Richard) Disciplina 005.8 Computer software - Reliability Soggetti Computer security Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali "The contributions in this volume have emerged from lectures of the 27th International Summer School on Software System Reliability and Security, held at Marktoberdorf from August 1 to August 13, 2006."--Pref., p. vi. Includes bibliographical references. Nota di bibliografia Title page; Preface; Contents; Logics and Automata for Software Model-Nota di contenuto Checking; Specifying, Relating and Composing Object Oriented Interfaces, Components and Architectures; Using Invariants to Reason About Cryptographic Protocols; Verified Interoperable Implementations of Security Protocols; Compensable Transactions; Automata on Infinite Words and Their Applications in Formal Verification; Practical Principles for Computer Security; Engineering Requirements for System Reliability and Security; Pervasive Verification of Distributed Real-Time Systems Verification and Synthesis of Reactive ProgramsSecurity, Privacy, Usability and Reliability (SPUR) in Mobile Networked Embedded

## Sommario/riassunto

Systems: The Case of Modern Automobiles; A Verifying Compiler for a Multi-Threaded Object-Oriented Language; Author Index

To make communication and computation secure against catastrophic failure and malicious interference, it is essential to build secure software systems and methods for their development. This book describes the ideas on how to meet these challenges in software engineering.