Record Nr. UNINA9910450859103321 **Titolo** Software system reliability and security [[electronic resource] /] / edited by Manfred Broy, 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 Descrizione fisica 1 online resource (428 p.) Collana NATO security through science series. Sub-series D. Information and communication security, , 1574-5589 ; ; v. 9 BrovM. <1949-> Altri autori (Persone) GrunbauerJohannes HoareC. A. R <1934-> (Charles Antony Richard) 005.8 Disciplina Soggetti Computer software - Reliability Computer security Electronic books. 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 Nota di contenuto Title page; Preface; Contents; Logics and Automata for Software Model-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

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Sommario/riassunto

Usability and Reliability (SPUR) in Mobile Networked Embedded 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.