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Titolo	Architecting dependable systems // edited by Rogerio de Lemos, Cristina Gacek, Alexander Romanovsky
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Descrizione fisica	1 online resource (316 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2677
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Architectures for Dependability -- Intrusion-Tolerant Architectures: Concepts and Design -- Improving Dependability of Component-Based Systems via Multi-versioning Connectors -- Increasing System Dependability through Architecture-Based Self-Repair -- Dependability in the Web Services Architecture -- A Component Based Real-Time Scheduling Architecture -- Fault Tolerance in Software Architectures -- A Fault-Tolerant Software Architecture for Component-Based Systems -- The Role of Event Description in Architecting Dependable Systems -- Architectural Mismatch Tolerance -- Dependability Analysis in Software Architectures -- Quality Analysis of Dependable Systems: A Developer Oriented Approach -- Stochastic Dependability Analysis of System Architecture Based on UML Models -- Specification-Level Integration of Simulation and Dependability Analysis -- Using Architectural Properties to Model and Measure Graceful Degradation -- Industrial Experience -- Dependability Experience in Philips.
Sommario/riassunto	As software systems become more and more ubiquitous, the issues of dependability become more and more critical. Given that solutions to these issues must be planned at the beginning of the design process, it is appropriate that these issues be addressed at the architectural level. This book is inspired by the ICSE 2002 Workshop on Architecting

Dependable Systems; it is devoted to current topics relevant for improving the state of the art for architecting dependability. Some of the 13 peer-reviewed papers presented were initially presented at the workshop, others were invited in order to achieve competent and complete coverage of all relevant aspects. The papers are organized in topical sections on - architectures for dependability - fault tolerance in software architectures - dependability analysis in software architectures - industrial experience.
