Record Nr.	UNINA9910484524003321
Titolo	Architecting dependable systems VII / / Antonio Casimiro, Rogerio de Lemos, Cristina Gacek (eds.)
Pubbl/distr/stampa	Berlin, : Springer, 2010
ISBN	1-280-39044-1 9786613568366 3-642-17245-8
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (XII, 324 p. 101 illus.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 6420 LNCS sublibrary. SL 2, Programming and software engineering
Altri autori (Persone)	CasimiroAntonio LemosRogerio de <1961-> GacekCristina <1964->
Disciplina	004.2/2
Soggetti	Computer architecture Computer systems - Reliability Fault-tolerant computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	1. Mobile and Ubiquitous Systems Self-healing for Pervasive Computing Systems Self Organization and Self Maintenance of Mobile Ad Hoc Networks through Dynamic Topology Control Data Backup for Mobile Nodes: A Cooperative Middleware and an Experimentation Platform 2. Architecting Systems Identification of Security Requirements in Systems of Systems by Functional Security Analysis Implementing Reliability: The Interaction of Requirements, Tactics and Architecture Patterns A Framework for Flexible and Dependable Service-Oriented Embedded Systems Architecting Robustness and Timeliness in a New Generation of Aerospace Systems 3. Fault Management Architecting Dependable Systems with Proactive Fault Management ASDF: An Automated, Online Framework for Diagnosing Performance Problems 4. Experience and Vision Is Collaborative QoS the Solution to the SOA Dependability Dilemma? Software Assumptions Failure Tolerance: Role, Strategies, and Visions Architecting Dependable Systems Using Reflective

1.

	Computing: Lessons Learnt and Some Challenges Architecting and Validating Dependable Systems: Experiences and Visions.
Sommario/riassunto	As software systems become increasingly ubiquitous, issues of dependability become ever more crucial. Given that solutions to these issues must be considered from the very beginning of the design process, it is clear that dependability and security have to be addressed at the architectural level. This book, as well as its six predecessors, was born of an effort to bring together the research communities of software architectures, dependability, and security. This state-of-the- art survey contains expanded, peer-reviewed papers based on selected contributions from the Workshop on Architecting Dependable Systems (WADS 2009), held at the International Conference on Dependable Systems and Networks (DSN 2009), as well as a number of invited papers written by renowned experts in the area. The 13 papers are organized in topical sections on: mobile and ubiquitous systems, architecting systems, fault management, and experience and vision.