

《Architecting Dependable Systems II》

图书基本信息

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《Architecting Dependability》

内容概要

As software systems become ubiquitous, the issues of dependability become more and more critical. Given that solutions to these issues must be taken into account from the very beginning of the design process, it is appropriate that dependability is addressed at the architectural level. This book results from an effort to bring together the research communities of software architectures and dependability. Inspired by the ICSE 2003 Workshop on Software Architectures for Dependable Systems, the book focuses on topics relevant to improving the state of the art in architecting dependable systems. The 15 thoroughly reviewed papers originate partly from the workshop; others were solicited in order to achieve complete coverage of all relevant aspects. The papers are organized into topical sections on architectures for dependability, fault-tolerance in software architectures, dependability analysis in software architectures, and industrial experience.

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书籍目录

Part 1. Architectures for Dependability Enhancing Dependability Through Flexible Adaptation to Changing Requirements A Self-optimizing Run-Time Architecture for Configurable Dependability of Services
Achieving Critical System Survivability Through Software Architectures Reliability Support for the Model Driven Architecture Supporting Dependable Distributed Applications Through a Component-Oriented Middleware-Based Group Service

Part 2. Fault Tolerance in Software Architectures Architecting Distributed Control Applications Based on (Re-)Configurable Middleware A Dependable Architecture for COTS-Based Software Systems Using Protective Wrappers A Framework for Reconfiguration-Based Fault-Tolerance in Distributed Systems On Designing Dependable Services with Diverse Off-the-Shelf SQL Servers A Model and a Design Approach to Building QoS Adaptive Systems

Part 3. Dependability Analysis in Software Architectures Quantifiable Software Architecture for Dependable Systems of Systems Dependability Modeling of Self-healing Client-Server Applications Multi-view Software Component Modeling for Dependability

Part 4. Industrial Experiences A Dependable Open Platform for Industrial Robotics - A Case Study Model Driven Architecture - An Industry Perspective

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