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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1943
Disciplina	005.1
Soggetti	Computer engineering Computers Data encryption (Computer science) Software engineering Special purpose computers Computer logic Computer Engineering Computing Milieux Cryptology Software Engineering/Programming and Operating Systems Special Purpose and Application-Based Systems Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Paper -- The Ten Most Powerful Principles for Quality in (Software and) Software Organizations for Dependable Systems -- Verification and Validation -- Empirical Assessment of Software On-Line Diagnostics Using Fault Injection -- Speeding-Up Fault Injection Campaigns in VHDL Models -- Specification and Verification of a Safety Shell with Statecharts and Extended Timed Graphs -- Validation of Control System Specifications with Abstract Plant Models -- A Constant Perturbation Method for Evaluation of Structural Diversity in

Multiversion Software -- Expert Error: The Case of Trouble-Shooting in Electronics -- The Safety Management of Data-Driven Safety-Related Systems -- Software Support for Incident Reporting Systems in Safety-Critical Applications -- Software Process Improvement -- A Dependability-Explicit Model for the Development of Computing Systems -- Deriving Quantified Safety Requirements in Complex Systems -- Improving Software Development by Using Safe Object Oriented Development : OTCD -- A Safety Licensable PES for SIL 4 Applications -- Safety and Security Issues in Electric Power Industry -- Dependability of Computer Control Systems in Power Plants -- A Method of Analysis of Fault Trees with Time Dependencies -- Formal Methods -- A Formal Methods Case Study: Using Light-Weight VDM for the Development of a Security System Module -- Formal Methods: The Problem Is Education -- Formal Methods Diffusion: Past Lessons and Future Prospects -- Invited Paper -- Safe Tech: A Control Oriented Viewpoint -- Safety Guidelines, Standards and Certification -- Derivation of Safety Targets for the Random Failure of Programmable Vehicle Based Systems -- IEC 61508 — A Suitable Basis for the Certification of Safety-Critical Transport-Infrastructure Systems ?? -- Hardware Aspects -- An Approach to Software Assisted Recovery from Hardware Transient Faults for Real Time Systems -- Programmable Electronic System Design & Verification Utilizing DFM -- SIMATIC S7-400F/FH: Safety-Related Programmable Logic Controller -- Safety Assessment I -- Assessment of the Reliability of Fault-Tolerant Software: A Bayesian Approach -- Estimating Dependability of Programmable Systems Using BBNs -- Design for Safety -- Improvements in Process Control Dependability through Internet Security Technology -- A Survey on Safety-Critical Multicast Networking -- Invited Paper -- Causal Reasoning about Aircraft Accidents -- Transport & Infrastructure -- Controlling Requirements Evolution: An Avionics Case Study -- HAZOP Analysis of Formal Models of Safety-Critical Interactive Systems -- Failure Mode and Effect Analysis for Safety-Critical Systems with Software Components -- Safety Assessment II -- Risk Ordering of States in Safecharts -- Dependability Evaluation: Model and Method Based on Activity Theory -- Forensic Software Engineering and the Need for New Approaches to Accident Investigation.

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