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Soggetti	Compilers (Computer programs) Computer science Software engineering Computers, Special purpose Compilers and Interpreters Computer Science Logic and Foundations of Programming Software Engineering Special Purpose and Application-Based Systems
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Formal Verification of Steady-State Errors in Unity-Feedback Control Systems -- Assertion-Based Monitoring in Practice – Checking Correctness of an Automotive Sensor Interface -- Analysis of Real-Time Properties of a Digital Hydraulic Power Management System -- Formal Analysis of a Fault-Tolerant Routing Algorithm for a Network-on-Chip -- Formal Specification and Verification of TCP Extended with the Window Scale Option -- Learning Fragments of the TCP Network Protocol -- On the Validation of an Interlocking System by Model-Checking -- Deadlock Avoidance in Train Scheduling: A Model Checking Approach -- An Open Alternative for SMT-Based Verification of Scade Models -- Improving Static Analyses of C Programs with Conditional Predicates -- Detecting Consistencies and Inconsistencies of Pattern-Based Functional Requirements -- Test Specification Patterns for Automatic Generation of Test Sequences -- Randomised

Sommario/riassunto

This book constitutes the proceedings of the 19th International Conference on Formal Methods for Industrial Critical Systems, FMICS 2014, held in Florence, Italy, in September 2014. The 13 papers presented in this volume were carefully reviewed and selected from 26 submissions. They are organized in topical sections named: cyber-physical systems; computer networks; railway control systems; verification methods; and hardware and software testing.