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Collana	Lecture notes in computer science, , 0302-9743 ; ; 5825
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Soggetti	Computer programs - Verification Formal methods (Computer science) Software engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Selected conference papers.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Attacking Large Industrial Code with Bi-abductive Inference -- On a Uniform Framework for the Definition of Stochastic Process Languages -- Applying a Formal Method in Industry: A 15-Year Trajectory -- What's in Common between Test, Model Checking, and Decision Procedures? -- Contributed Papers -- Verifying Cryptographic Software Correctness with Respect to Reference Implementations -- Towards an Industrial Use of FLUCTUAT on Safety-Critical Avionics Software -- Dynamic State Space Partitioning for External Memory Model Checking -- Compositional Verification of a Communication Protocol for a Remotely Operated Vehicle -- Modeling Concurrent Systems with Shared Resources -- Platform-Specific Restrictions on Concurrency in Model Checking of Java Programs -- Formal Analysis of Non-determinism in Verilog Cell Library Simulation Models -- Preemption Abstraction -- A Rigorous Methodology for Composing Services -- A Certified Implementation on Top of the Java Virtual Machine -- Selected Posters -- Formal Development for Railway Signaling Using Commercial Tools -- Integrated Formal Approach for Qualified Critical Embedded Code Generator -- Visualising Event-B Models with B-Motion Studio -- Behavioural Analysis of an I2C Linux

Driver -- Model-Based Testing of Electronic Passports -- Developing a Decision Support Tool for Dam Management with SPIN.

Sommario/riassunto

This book constitutes the proceedings of the 14th International Workshop on Formal Methods for Industrial Critical Systems, FMICS 2009 held in Eindhoven, The Netherlands, in November 2009. The 10 papers presented were carefully reviewed and selected from 25 submissions. The volume also contains with 4 invited papers and 6 posters. The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry. It also strives to promote research and development for the improvement of formal methods and tools for industrial applications.
