

1. Record Nr.	UNINA9910483520203321
Titolo	Integrated Formal Methods : 11th International Conference, IFM 2014, Bertinoro, Italy, September 9-11, 2014, Proceedings // edited by Elvira Albert, Emil Sekerinski
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-10181-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XII, 390 p. 125 illus.)
Collana	Programming and Software Engineering ; ; 8739
Disciplina	004.0151
Soggetti	Software engineering Computer logic Programming languages (Electronic computers) Mathematical logic Software Engineering Logics and Meanings of Programs Programming Languages, Compilers, Interpreters Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Shape and Content: A Database-Theoretic Perspective on the Analysis of Data Structures -- How to Break the Bank: Semantics of Capability Policies -- Model-Checking Circus State-Rich Specifications -- An Interactive Verification Tool Meets an IDE -- An Analysis Pathway for the Quantitative Evaluation of Public Transport Systems -- Modeling UML Template Classes with FoCaLiZe -- Integrating Event-B Modelling and Discrete-Event Simulation to Analyse Resilience of Data Stores in the Cloud -- Applying an Integrated Modelling Process to Run-time Management of Many-Core Systems -- Verifying Behavioral UML Systems via CEGAR -- Formal Refinement in SysML -- Verifying Modal Workflow Specifications Using Constraint Solving.-Proofs and Refutations in Invariant-Based Programming -- Automated Theorem Prover Assisted Program Calculations -- Managing LTL Properties in Event-B Refinement -- Formal Security Analysis of the MaCAN Protocol

-- A Probabilistic Framework for Security Scenarios with Dependent Actions -- A Hybrid Analysis for Security Protocols with State -- Towards a Formal Semantics-Based Technique for Interprocedural Slicing -- Integrating Software and Hardware Verification -- Code Generation for Event-B -- Verifying Linearizability on TSO Architectures -- A Compositional Proof Method for Linearizability Applied to a Wait-Free Multiset -- A Separation Principle for Embedded System Interfacing.

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Integrated Formal Methods, IFM 2014, held in Bertinoro, Italy, in September 2014. The 21 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 43 submissions. The papers have been organized in the following topical sections: tool integration; model verification; program development; security analysis; analysis and transformation; and concurrency and control.
