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Soggetti	Software engineering Programming languages (Electronic computers) Computer logic Software Engineering/Programming and Operating Systems Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Software Engineering
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Keynotes -- From model checking to a temporal proof -- Model checking if your life depends on it: a view from intel's trenches -- Model checking if your life depends on it: a view from intel's trenches -- Technical Papers and Tool Reports -- Model-checking in finite state-space systems with fine-grained abstractions using SPIN -- Implementing LTL model checking with net unfoldings -- Directed explicit model checking with HSF-SPIN -- Directed explicit model checking with HSF-SPIN -- Addressing dynamic issues of program model checking -- Addressing dynamic issues of program model checking -- Automatically validating temporal safety properties of interfaces -- Automatically validating temporal safety properties of interfaces -- Verification experiments on the MASCARA protocol -- Verification experiments on the MASCARA protocol -- Using SPIN for feature interaction analysis - a case study -- Using SPIN for feature interaction analysis - a case study -- Behavioural analysis of the

enterprise javaBeans™ component architecture -- Behavioural analysis of the enterprise javaBeans™ component architecture -- p2b: A translation utility for linking promela and symbolic model checking (tool paper) -- p2b: A translation utility for linking promela and symbolic model checking (tool paper) -- Transformations for model checking distributed java programs -- Transformations for model checking distributed java programs -- Distributed LTL model-checking in SPIN -- Distributed LTL model-checking in SPIN -- Parallel state space construction for model-checking -- Parallel state space construction for model-checking -- Model checking systems of replicated processes with spin -- Model checking systems of replicated processes with spin -- A SPIN-based model checker for telecommunication protocols -- A SPIN-based model checker for telecommunication protocols -- Modeling and verifying a price model for congestion control in computer networks using promela/spin -- Modeling and verifying a price model for congestion control in computer networks using promela/spin -- Invited Project Summaries -- A model checking project at philips research -- Applications of model checking at honeywell laboratories -- Coarse-granular model checking in practice.

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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International SPIN Workshop held in Toronto, Canada, in May 2001. The SPIN model checker is one of the most powerful and popular systems for the analysis and verification of distributed and concurrent systems. The 13 revised full papers presented together with one invited survey paper and three invited industrial experience reports were carefully reviewed and selected from 26 submissions. Besides foundational issues of program analysis and formal verification, the papers focus on tools for model checking and practical applications in a variety of fields.

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