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Nota di contenuto	Model Verication Through Dependency Graphs -- Model Checking Branching Time Properties for Incomplete Markov Chains -- A Novel Decentralized LTL Monitoring Framework Using Formula Progression Table -- From Dynamic State Machines to Promela -- String abstraction for model checking of C programs -- Swarm Model Checking on the GPU -- Statistical Model Checking of Complex Robotic Systems -- STAD: Stack Trace Based Automatic Software Misconguration Diagnosis via Value Dependency Graph -- Extracting Safe Thread Schedules from Incomplete Model Checking Results -- Learning Guided Enumerative Synthesis for Superoptimization -- Applying Model

Checking Approach with Floating Point Arithmetic -- Conformance Testing of Schedulers for DSL-based Model Checking -- A Study of Learning Data Structure Invariants Using O-the-shelf Tools -- VeriVANca: An Actor-Based Framework for Formal Verication of Warning Message Dissemination Schemes in VANETs.

Sommario/riassunto

This book constitutes the refereed proceedings of the 26th International Symposium on Model Checking Software, SPIN 2019, held in Beijing, China, in July 2019. The 11 full papers presented and 2 demo-tool papers, were carefully reviewed and selected from 29 submissions. Topics covered include formal verification techniques for automated analysis of software; formal analysis for modeling languages, such as UML/state charts; formal specification languages, temporal logic, design-by-contract; model checking, automated theorem proving, including SAT and SMT; verifying compilers; abstraction and symbolic execution techniques; and much more. .