1.	Record Nr.	UNISA996199684303316
	Titolo	Runtime Verification [[electronic resource]] : 5th International Conference, RV 2014, Toronto, ON, Canada, September 22-25, 2014. Proceedings / / edited by Borzoo Bonakdarpour, Scott A. Smolka
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
	ISBN	3-319-11164-7
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (XVIII, 358 p. 82 illus.)
	Collana	Programming and Software Engineering ; ; 8734
	Disciplina	004.0151
	Soggetti	Software engineering Algorithms Computer logic Computer programming Programming languages (Electronic computers) Mathematical logic Software Engineering Algorithm Analysis and Problem Complexity Logics and Meanings of Programs Programming Techniques Programming Languages, Compilers, Interpreters Mathematical Logic and Formal Languages
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	First International Competition on Software for Runtime Verification -- Monitoring and Trace Slicing -- Multiple Ways to Fail: Generalizing a Monitor's Verdict for the Classification of Execution Traces -- Scalable Offline Monitoring -- Monitoring Systems with Extended Live Sequence Charts -- Foundations of Boolean Stream Runtime Verification -- Portable Runtime Verification with Smartphones and Optical Codes -- Robust Consistency Checking for Modern Filesystems -- Runtime Verification of Distributed and Concurrent Systems -- On the Number of Opinions Needed for Fault-Tolerant Run-Time Monitoring in

Distributed Systems -- Supporting the Specification and Runtime Validation of Asynchronous Calling Patterns in Reactive Systems -- Speculative Program Parallelization with Scalable and Decentralized Runtime Verification -- Organising LTL Monitors over Distributed Systems with a Global Clock -- Dynamic Verification for Hybrid Concurrent Programming Models -- Abstraction and Mining of Traces to Explain Concurrency Bugs -- Runtime Verification of Real-Time and Embedded Systems -- Online Monitoring of Metric Temporal Logic -- On Real-Time Monitoring with Imprecise Timestamps -- ModelPlex: Verified Runtime Validation of Verified Cyber-Physical System Models -- Runtime Observer Pairs and Bayesian Network Reasoners On-board FPGAs: Flight-Certifiable System Health Management for Embedded Systems -- On-Line Monitoring for Temporal Logic Robustness -- ROSRV: Runtime Verification for Robots -- Testing and Bug Finding -- Symbolic Execution Debugger (SED) -- Checking Data Structure Properties Orders of Magnitude Faster -- Dynamic Test Generation with Static Fields and Initializers -- RV-Monitor: Efficient Parametric Runtime Verification with Simultaneous Properties -- Inference and Learning -- Improving Dynamic Inference with Variable Dependence Graph -- The TTT Algorithm: A Redundancy-Free Approach to Active Automata Learning -- Lazy Symbolic Execution for Enhanced Learning -- Faster Statistical Model Checking by Means of Abstraction and Learning.

Sommario/riassunto	This book constitutes the refereed proceedings of the 5th International Conference on Runtime Verification, RV 2014, held in Toronto, ON, Canada in September 2014. The 28 revised full papers presented together with 2 tool papers, and 8short papers were carefully reviewed and selected from 70 submissions. The scope of the conference was on following topics: monitoring and trace slicing, runtime verification of distributed and concurrent systems, runtime Verification of real-time and embedded systems, testing and bug finding, and inference and learning.