1. **Record Nr.** UNINA9910349459903321

Titolo	Lectures on Runtime Verification : Introductory and Advanced Topics / / edited by Ezio Bartocci, Yliès Falcone
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-75632-X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VII, 233 p. 28 illus.)
Collana	Programming and Software Engineering ; ; 10457
Disciplina	004
Soggetti	Software engineering Computers Computer logic Computer system failures Software Engineering The Computing Profession Logics and Meanings of Programs System Performance and Evaluation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An Introduction to Runtime Verification -- Discovering Concurrency Errors -- Monitoring Events That Carry Data -- Runtime Error Reaction and Prevention -- Specification-based Monitoring of Cyber-Physical Systems: A Survey on Theory, Tools and Applications -- Runtime Verification for Decentralized and Distributed Systems -- Industrial Experiences with Runtime Verification of Financial Transaction Systems: Lessons Learnt and Standing Challenges.
Sommario/riassunto	The idea of this volume originated from the need to have a book for students to support their training with several tutorials on different aspects of RV. The volume has been organized into seven chapters and the topics covered include an introduction on runtime verification, dynamic analysis of concurrency errors, monitoring events that carry data, runtime error reaction and prevention, monitoring of cyber-physical systems, runtime verification for decentralized and distributed systems and an industrial application of runtime verification techniques

in financial transaction systems.