

1. Record Nr.	UNINA9910983492003321
Autore	Margaria Tiziana
Titolo	Leveraging Applications of Formal Methods, Verification and Validation. Specification and Verification : 12th International Symposium, ISoLA 2024, Crete, Greece, October 27–31, 2024, Proceedings, Part III // edited by Tiziana Margaria, Bernhard Steffen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-75380-1
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (416 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15221
Altri autori (Persone)	SteffenBernhard
Disciplina	005.1
Soggetti	Software engineering Machine theory Computer science Computers, Special purpose Computer systems Microprogramming Software Engineering Formal Languages and Automata Theory Computer Science Logic and Foundations of Programming Special Purpose and Application-Based Systems Computer System Implementation Control Structures and Microprogramming
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	SpecifyThis – Bridging Gaps Between Program Specification Paradigms: Track Introduction -- Deductively Verified Program Models for Software Model Checking -- Towards Probabilistic Contracts for Intelligent Cyber-Physical Systems -- Towards the Formal Analysis of Algorithmic Requirements -- Interest beyond Violation: On Points-of-Interest in Runtime Verification -- Contract-LIB: A Proposal for a Common Interchange Format for Software Systems Specification -- Adventures in FRET and Specification -- Challenges of Multilingual Program Specification and Analysis -- Towards Integrating Copiloting and

Formal Methods: Building Blocks, Architecture, and Challenges -- High-Level Program Properties in Frama-C: Definition, Verification and Deduction -- Formal Foundations of Consistency in Model-Driven Development -- Context-Aware Contracts as a Lingua Franca for Behavioral Specification -- SIMPPAAL: A Framework For Statistical Model Checking of Industrial Simulink Models -- Static and Dynamic Verification of OCaml Programs: the Gospel Ecosystem -- Scalable Verification and Validation of Concurrent and Distributed Systems (ScaVeri) (Track Summary) -- SyDPaCC: A Framework for the Development of Verified Scalable Parallel Functional Programs -- A Theory of Probabilistic Contracts -- Composition and Merging of Assume-Guarantee Contracts Are Tensor Products -- Avoiding distractions in parity games -- No Need to Be Stubborn: Partial-Order Reduction for GPU Model Checking Revisited -- SAT-Based Quantified Symmetric Minimization of the Reachable States of Distributed Protocols: An Update -- CommonUppRoad: A Framework of Formal Modelling, Verifying, and Visualisation of Autonomous Vehicles.

Sommario/riassunto

The ISoLA 2024 proceedings constitutes contributions of the associated events held at the 12th International Symposium on Leveraging Applications of Formal Methods, ISoLA 2024, which took place in Crete, Greece, in October 2024. ISoLA 2024 provides a forum for developers, users, and researchers to discuss issues related to the adoption and use of rigorous tools and methods for the specification, analysis, verification, certification, construction, test, and maintenance of systems from the point of view of their different application domains. .
