1.	Record Nr.	UNINA9910349307003321
	Titolo	Numerical Software Verification : 12th International Workshop, NSV 2019, New York City, NY, USA, July 13–14, 2019, Proceedings / / edited by Majid Zamani, Damien Zufferey
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
	ISBN	3-030-28423-9
	Edizione	[1st ed. 2019.]
	Descrizione fisica	1 online resource (XV, 145 p. 68 illus., 42 illus. in color.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 11652
	Disciplina	005.14
	Soggetti	Computer science Software engineering Artificial intelligence Computers Professions Computer Science Logic and Foundations of Programming Software Engineering Artificial Intelligence The Computing Profession
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes Index.
	Nota di contenuto	Tutorials -- Correctness and Optimality for Control Systems -- Modeling, Control, and Verification of an Automated Transport System -- Formal Methods for Highly Automated Driving Applications -- Trust, Resilience and Interpretability of AI Models -- Reinforcement Learning and Formal Requirements -- Contributed Papers -- An Evaluation of Monte-Carlo Tree Search for Property Falsification on Hybrid Flight Control Laws -- Rigorous Continuous Evolution of Uncertain Systems -- Stochastic Local Search for Solving Floating-Point Constraints -- Evaluating Branching Heuristics in Interval Constraint Propagation for Satisfiability -- Approximate Probabilistic Relations for Compositional Abstractions of Stochastic Systems -- Polytopic Trees for Verification of Learning-Based Controllers -- Mutant Accuracy Testing for Assessing

the Implementation of Numerical Algorithms.

Sommario/riassunto   This book constitutes the proceedings of the 12th International Workshop on Numerical Software Verification, NSV 2019, held in New York City, NY, USA, in July 2019 - colocated with the International Conference on Computer Aided Verification, CAV 2019. The 5 full papers presented together with 2 short papers, 3 abstracts of invited talks, and 2 tutorial papers were carefully reviewed and selected from numerous submissions. The NSV 2017 workshop is dedicated to the development of logical and mathematical techniques for the reasoning about programmability and reliability.