



Automated Technology for Verification and Analysis [19th International Symposium, ATVA 2021, Gold Coast, QLD, Australia, October 18{u2013} 22, 2021, Proceedings /

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Monografía

This book constitutes the refereed proceedings of the 19th International Symposium on Automated Technology for Verification and Analysis, ATVA 2021, held in Gold Coast, Australia in October 2021. The symposium is dedicated to promoting research in theoretical and practical aspects of automated analysis, verification and synthesis by providing an international venue for the researchers to present new results. The 19 regular papers presented together with 4 tool papers and 1 invited paper were carefully reviewed and selected from 75 submissions. The papers are divided into the following topical sub-headings: Automata Theory; Machine learning for Formal Methods; Theorem Proving and Tools; Model Checking; Probabilistic Analysis; Software and Hardware Verification; System Synthesis and Approximation; and Verification of Machine Learning

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Título: Automated Technology for Verification and Analysis Recurso electrónico] :] 19th International Symposium, ATVA 2021, Gold Coast, QLD, Australia, October 18{u2013}22, 2021, Proceedings edited by Zhe Hou, Vijay Ganesh

Edición: 1st ed. 2021

Editorial: Cham Springer International Publishing Imprint: Springer 2021

Descripción física: XV, 382 p. 103 illus., 49 illus. in color. online resource

Mención de serie: Programming and Software Engineering 12971

Contenido: Invited Paper -- Linear Temporal Logic {u00AD} {u2013} From Infinite to Finite Horizon -- Automata Theory -- Determinization and Limit-determinization of Emerson-Lei automata -- Automatic discovery of fair paths in infinite-state transition systems -- Certifying DFA Bounds for Recognition and Separation -- Machine Learning for Formal Methods -- AALpy: An Active Automata Learning Library -- Learning Linear Temporal Properties from Noisy Data: A MaxSAT-based Approach -- Mining Interpretable Spatio-temporal Logic Properties for Spatially Distributed Systems -- Theorem Proving and Tools -- A Formal Semantics of the GraalVM Intermediate Representation -- A Verified Decision Procedure for Orders in Isabelle/HOL -- PJBDD: A BDD Library for Java and Multi-Threading -- Model Checking -- Live Synthesis -- Faster Pushdown Reachability Analysis with Applications in Network Verification -- Verifying Verified Code -- Probabilistic Analysis -- Probabilistic causes in Markov Chains -- TEMPEST - Synthesis Tool for Reactive Systems and Shields in Probabilistic Environments -- AQUA: Automated Quantized Inference for Probabilistic Programs -- Software and Hardware Verification -- Proving SIFA Protection of Masked Redundant Circuits -- Verification by Gambling on Program Slices -- Runtime Enforcement of Hyperproperties -- System Synthesis and Approximation -- Compositional Synthesis of Modular Systems -- Event-B Refinement for Continuous Behaviours Approximation -- Incorporating Monitors in Reactive Synthesis without Paying the Price -- Verification of Machine Learning -- pyNever: a Framework for Learning and Verification of Neural Networks -- Property-Directed Verification and Robustness Certification of Recurrent Neural Networks

ISBN: 9783030888855

Materia: Software engineering Artificial intelligence Computer hardware Computer organization Software Engineering/Programming and Operating Systems Artificial Intelligence Computer Hardware Computer Systems Organization and Communication Networks

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Entidades: SpringerLink Book Series (Online Service)

Punto acceso adicional serie-Título: Programming and Software Engineering 12971

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