1.	Record Nr.	UNISA996464499103316
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	Titolo	Computer Aided Verification [[electronic resource]] : 33rd International Conference, CAV 2021, Virtual Event, July 20–23, 2021, Proceedings, Part II / / edited by Alexandra Silva, K. Rustan M. Leino
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
	ISBN	3-030-81688-5
	Edizione	[1st ed. 2021.]
	Descrizione fisica	1 online resource (955 p.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 12760
	Altri autori (Persone)	LeinoK. Rustan M
	Disciplina	005.1
	Soggetti	Software engineering Machine theory Artificial intelligence Computer science Computer simulation Software Engineering Formal Languages and Automata Theory Artificial Intelligence Computer Science Logic and Foundations of Programming Computer Modelling
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di contenuto	Complexity and Termination Learning Probabilistic Termination Proofs Ghost Signals: Verifying Termination of Busy Waiting Reflections on Termination of Linear Loops Decision Tree Learning in CEGIS-Based Termination Analysis ATLAS: Automated Amortised Complexity Analysis of Self-Adjusting Data Structures Decision Procedures and Solvers Theory Exploration Powered by Deductive Synthesis CoqQFBV: A Scalable Certified SMT Quantifier-Free Bit- Vector Solver Porous Invariants JavaSMT 3: Interacting with SMT Solvers in Java Efficient SMT-based Analysis of Failure Propagation ToolX : Better Delta Debugging for the SMT-LIBv2 Language and Friends Learning Union of Integer Hypercubes with Queries (with

	applications to monadic decomposition) Interpolation and Model Checking for Nonlinear Arithmetic An SMT Solver for Regular Expressions and Linear Arithmetic over String Length Counting Minimal Unsatisfiable Subsets Sound Verification Procedures for Temporal Properties of Infinite-State Systems Hardware and Model Checking Progress in Certifying Hardware Model Checking Results Model-Checking Structured Context-Free Languages Model Checking !- Regular Properties with Decoupled Search AIGEN: Random Generation of Symbolic Transition Systems GPU Acceleration of Bounded Model Checking with ParaFROST Pono: A Flexible and Extensible SMT-based Model Checker Logical Foundations Towards a Trustworthy Semantics-Based Language Framework via Proof Generation Formal Foundations of Fine-Grained Explainability Latticed k-Induction with an Application to Probabilistic Programs Stochastic Systems Runtime Monitors for Markov Decision Processes Model Checking Finite-Horizon Markov Chains with Probabilistic Inference Enforcing Almost-Sure Reachability in POMDPs Rigorous Floating-Point Roundo Error Analysis of Probabilistic Computations Model-free Reinforcement Learning for Branching Markov Decision Processes Software Verification Cameleer: a Deductive Verification Tool for OCaml LLMC: Verifying High-Performance Software Formally Validating a Practical Verification Condition Generator Automatic Generation and Validation of Instruction Encoders and Decoders An SMT Encoding of LLVM's Memory Model for Bounded Translation Validation Automatically Tailoring Abstract Interpretation to Custom Usage Scenarios Functional Correctness of C implementations of Dijkstra's, Kruskal's, and Prim's Algorithms Gillian, Part II: Real-World Verification for JavaScript and C Debugging Network Reachability with Blocked Paths Lower-Bound Synthesis using Loop Specialization and Max-SMT Fast Computation of Strong Control Dependencies Di y: Inductive Reasoning
Sommario/riassunto	This open access two-volume set LNCS 12759 and 12760 constitutes the refereed proceedings of the 33rd International Conference on Computer Aided Verification, CAV 2021, held virtually in July 2021. The 63 full papers presented together with 16 tool papers and 5 invited papers were carefully reviewed and selected from 290 submissions. The papers were organized in the following topical sections: Part I: invited papers; AI verification; concurrency and blockchain; hybrid and cyber-physical systems; security; and synthesis. Part II: complexity and termination; decision procedures and solvers; hardware and model checking; logical foundations; and software verification.