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Descrizione fisica	1 online resource (XII, 524 p.)
Collana	Lecture notes in computer science, , 0302-9743 ; ; 4603. Lecture notes in artificial intelligence
Disciplina	511.3
Soggetti	Automatic theorem proving Logic, Symbolic and mathematical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Session 1. Invited Talk: Colin Stirling -- Games, Automata and Matching -- Session 2. Higher-Order Logic -- Formalization of Continuous Probability Distributions -- Compilation as Rewriting in Higher Order Logic -- Barendregt's Variable Convention in Rule Inductions -- Automating Elementary Number-Theoretic Proofs Using Gröbner Bases -- Session 3. Description Logic -- Optimized Reasoning in Description Logics Using Hypertableaux -- Conservative Extensions in the Lightweight Description Logic -- An Incremental Technique for Automata-Based Decision Procedures -- Session 4. Intuitionistic Logic -- Bidirectional Decision Procedures for the Intuitionistic Propositional Modal Logic IS4 -- A Labelled System for IPL with Variable Splitting -- Session 5. Invited Talk: Ashish Tiwari -- Logical Interpretation: Static Program Analysis Using Theorem Proving -- Session 6. Satisfiability Modulo Theories -- Solving Quantified Verification Conditions Using Satisfiability Modulo Theories -- Efficient E-Matching for SMT Solvers -- -Decision by Decomposition -- Towards Efficient Satisfiability Checking for Boolean Algebra with Presburger Arithmetic -- Session 7. Induction, Rewriting, and Polymorphism -- Improvements in Formula Generalization -- On the Normalization and Unique Normalization Properties of Term Rewrite Systems -- Handling Polymorphism in

Automated Deduction -- Session 8. First-Order Logic -- Automated Reasoning in Kleene Algebra -- SRASS - A Semantic Relevance Axiom Selection System -- Labelled Clauses -- Automatic Decidability and Combinability Revisited -- Session 9. Invited Talk: K. Rustan M. Leino -- Designing Verification Conditions for Software -- Session 10. Model Checking and Verification -- Encodings of Bounded LTL Model Checking in Effectively Propositional Logic -- Combination Methods for Satisfiability and Model-Checking of Infinite-State Systems -- The KeY system 1.0 (Deduction Component) -- KeY-C: A Tool for Verification of C Programs -- The Bedwyr System for Model Checking over Syntactic Expressions -- System for Automated Deduction (SAD): A Tool for Proof Verification -- Session 11. Invited Talk: Peter Baumgartner -- Logical Engineering with Instance-Based Methods -- Session 12. Termination -- Predictive Labeling with Dependency Pairs Using SAT -- Dependency Pairs for Rewriting with Non-free Constructors -- Proving Termination by Bounded Increase -- Certified Size-Change Termination -- Session 13. Tableaux and First-Order Systems -- Encoding First Order Proofs in SAT -- Hyper Tableaux with Equality -- System Description: E-KRHyper -- System Description: Spass Version 3.0.
