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Nota di contenuto	One Logic to Use Them All -- The Tree Width of Separation Logic with Recursive Definitions -- Hierarchic Superposition with Weak Abstraction -- Completeness and Decidability Results for First-Order Clauses with Indices -- A Proof Procedure for Hybrid Logic with Binders, Transitivity and Relation Hierarchies -- Tractable Inference Systems: An Extension with a Deducibility Predicate -- Computing Tiny Clause Normal Forms -- System Description: E-KRHyper 1.4 Extensions for Unique Names and Description Logic -- Analysing Vote Counting

Algorithms via Logic: And Its Application to the CADE Election Scheme -- Automated Reasoning, Fast and Slow -- Foundational Proof Certificates in First-Order Logic -- Computation in Real Closed Infinitesimal and Transcendental Extensions of the Rationals -- A Symbiosis of Interval Constraint Propagation and Cylindrical Algebraic Decomposition -- dReal: An SMT Solver for Nonlinear Theories over the Reals -- Solving Difference Constraints over Modular Arithmetic -- Asymmetric Unification: A New Unification Paradigm for Cryptographic Protocol Analysis -- Hierarchical Combination -- PRocH: Proof Reconstruction for HOL Light -- An Improved BDD Method for Intuitionistic Propositional Logic: BDDIntKt System Description -- Towards Modularly Comparing Programs Using Automated Theorem Provers -- Reuse in Software Verification by Abstract Method Calls -- Dynamic Logic with Trace Semantics -- Temporalizing Ontology-Based Data Access -- Verifying Refutations with Extended Resolution -- Hierarchical Reasoning and Model Generation for the Verification of Parametric Hybrid Systems -- Quantifier Instantiation Techniques for Finite Model Finding in SMT -- Automating Inductive Proofs Using Theory Exploration -- E-MaLeS 1.1 -- TFF1: The TPTP Typed First-Order Form with Rank-1 Polymorphism -- Propositional Temporal Proving with Reductions to a SAT Problem -- InKreSAT: Modal Reasoning via Incremental Reduction to SAT -- bv2epr: A Tool for Polynomially Translating Quantifier-Free Bit-Vector Formulas into EPR -- The 481 Ways to Split a Clause and Deal with Propositional Variables.

Sommario/riassunto

This book constitutes the proceedings of the 24th International Conference on Automated Deduction, CADE-24, held in Lake Placid, NY, USA, in June 2013. The 31 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 71 initial submissions. CADE is the major forum for the presentation of research in all aspects of automated deduction, ranging from theoretical and methodological issues to the presentation of new theorem provers, solvers and systems.