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### <<可满足性测试理论及其应用 - SAT>>

### 图书基本信息

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作者: Biere, Armin; Gomes, Carla P.;

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#### 内容概要

This book constitutes the refereed proceedings of the 9th International Conference on Theory and Applications of Satisfiability Testing, SAT 2006, held in Seattle, WA, USA in August 2006 as part of the 4th Federated Logic Conference, FLoC 2006. The 26 revised full papers presented together with 11 revised short papers presented together with 2 invited talks were carefully selected from 95 submissions. All current research issues in propositional and quantified Boolean formula satisfiability testing are covered; the papers are organized in topical sections on proofs and cores, heuristics and algorithms, applications, SMT, structure, MAX-SAT, local search and survey propagation, QBF, as well as counting and concurrency.

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#### 书籍目录

Invited Talks From Propositional Satisfiability to Satisfiability Modulo Theories CSPs: Adding Structure to SATSession 1. Proofs and Cores Complexity of Semialgebraic Proofs with Restricted Degree of Falsity Categorisation of Clauses in Conjunctive Normal Forms: Minimally Unsatisfiable Sub-clause-sets and the Lean Kernel A Scalable Algorithm for Minimal Unsatisfiable Core Extraction Minimum Witnesses for Unsatisfiable 2CNFs Preliminary Report on Input Cover Number as a Metric for Propositional Resolution Proofs Extended Resolution Proofs for Symbolic SAT Solving with QuantificationSession 2. Heuristics and Algorithms Encoding CNFs to Empower Component Analysis Satisfiability Checking of Non-clausal Formulas Using General Matings Determinization of Resolution by an Algorithm Operating on Complete Assignments A Complete Random Jump Strategy with Guiding PathsSession 3. Applications Applications of SAT Solvers to Cryptanalysis of Hash Functions Functional Treewidth: Bounding Complexity in the Presence of Functional Dependencies Encoding the Satisfiability of Modal and Description Logics into SAT: The Case Study of K(m)/ALC SAT in Bioinformatics: Making the Case with Haplotype InferenceSession 4. SMT Lemma Learning in SMT on Linear Constraints On SAT Modulo Theories and Optimization Problems Fast and Flexible Difference Constraint Propagation for DPLL(T) A Progressive Simplifier for Satisfiability Modulo TheoriesSession 5. Structure Dependency Quantified Horn Formulas: Models and Complexity On Linear CNF Formulas......Session 6. MAX-SATSession 7. Load Search and Survey PropagationSession 8. QBFSession 9. Counting and Concurrency Author Index

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