



Theory and Applications of Satisfiability Testing - SAT 2016

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Condition: New. Publisher/Verlag: Springer, Berlin | 19th International Conference, Bordeaux, France, July 5-8, 2016, Proceedings | This book constitutes the refereed proceedings of the 19th International Conference on Theory and Applications of Satisfiability Testing, SAT 2016, held in Bordeaux, France, in July 2016. The 31 regular papers, 5 tool papers presented together with 3 invited talks were carefully reviewed and selected from 70 submissions. The papers address different aspects of SAT, including complexity, satisfiability solving, satisfiability applications, satisfiability modulo theory, beyond SAT, quantified Boolean formula, and dependency QBF. | Parameterized Compilation Lower Bounds for Restricted CNF-formulas.- Satisfiability via Smooth Pictures.- Solution-Graphs of Boolean Formulas and Isomorphism.- Strong Backdoors for Default Logic.- The Normalized Autocorrelation Length of Max r-Sat Converges in Probability to $(1-1/2 = r)/r$.- Tight Upper Bound on Splitting by Linear Combinations for Pigeonhole Principle.- Extreme Cases in SAT Problems.- Improved Static Symmetry Breaking for SAT.- Learning Rate Based Branching Heuristic for SAT Solvers.- On the Hardness of SAT with Community Structure.- Trade-offs between Time and Memory in a Tighter Model of CDCL SAT Solvers.- A SAT Approach to Branch Width.- Computing Maximum Unavoidable Subgraphs Using SAT Solvers.- Heuristic NPN Classification for Large Functions Using AIGs and LEXSAT.- Solving and...

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