

1. Record Nr.	UNINA9910778077003321
Titolo	Handbook of satisfiability [[electronic resource] /] / edited by Armin Biere ... [et al.]
Pubbl/distr/stampa	Amsterdam, The Netherlands ; ; Washington, DC, : IOS Press, c2009
ISBN	1-4416-1678-0 1-60750-376-X 600-00-1439-2
Descrizione fisica	1 online resource (980 p.)
Collana	Frontiers in artificial intelligence and applications, , 0922-6389 ; ; v. 185
Classificazione	ST 125 ST 300
Altri autori (Persone)	BiereArmin
Disciplina	006.3
Soggetti	Propositional calculus Decision making Computer algorithms Algebra, Boolean
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Title page; Contents; Part I. Theory and Algorithms; Chapter 1. A History of Satisfiability; Chapter 2. CNF Encodings; Chapter 3. Complete Algorithms; Chapter 4. CDCL Solvers; Chapter 5. Look-Ahead Based SAT Solvers; Chapter 6. Incomplete Algorithms; Chapter 7. Fundaments of Branching Heuristics; Chapter 8. Random Satisfiability; Chapter 9. Exploiting Runtime Variation in Complete Solvers; Chapter 10. Symmetry and Satisfiability; Chapter 11. Minimal Unsatisfiability and Autarkies; Chapter 12. Worst-Case Upper Bounds; Chapter 13. Fixed-Parameter Tractability Part II. Applications and ExtensionsChapter 14. Bounded Model Checking; Chapter 15. Planning and SAT; Chapter 16. Software Verification; Chapter 17. Combinatorial Designs by SAT Solvers; Chapter 18. Connections to Statistical Physics; Chapter 19. MaxSAT; Chapter 20. Model Counting; Chapter 21. Non-Clausal SAT and ATPG; Chapter 22. Pseudo-Boolean and Cardinality Constraints; Chapter 23. QBF Theory; Chapter 24. QBFs reasoning; Chapter 25. SAT Techniques

for Modal and Description Logics; Chapter 26. Satisfiability Modulo Theories; Chapter 27. Stochastic Boolean Satisfiability; Subject Index
Cited Author IndexContributing Authors and Affiliations

Sommario/riassunto

A collection of papers on various theoretical and practical aspects of SAT solving. It is suitable for students and researchers.
