Record Nr. UNINA9910349422303321 Automated Reasoning: 9th International Joint Conference, IJCAR 2018, **Titolo** Held as Part of the Federated Logic Conference, FloC 2018, Oxford, UK, July 14-17, 2018, Proceedings / / edited by Didier Galmiche, Stephan Schulz, Roberto Sebastiani Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2018 **ISBN** 3-319-94205-0 Edizione [1st ed. 2018.] Descrizione fisica 1 online resource (XVI, 724 p. 128 illus.) Collana Lecture Notes in Artificial Intelligence;; 10900 Disciplina 004.015113 Soggetti Mathematical logic Artificial intelligence Computer logic Algorithms Software engineering Programming languages (Electronic computers) Mathematical Logic and Formal Languages Artificial Intelligence Logics and Meanings of Programs Algorithm Analysis and Problem Complexity Software Engineering Programming Languages, Compilers, Interpreters Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto An Assumption-Based Approach for Solving The Minimal S5-Satisfiability Problem -- FAME: An Automated Tool for Semantic Forgetting in Expressive Description Logics -- Superposition for Lambda-Free Higher-Order Logic -- Automated Reasoning about Key Sets -- A Tableaux Calculus for Reducing Proof Size -- FORT 2.0 --Formalizing Bachmair and Ganzinger's Ordered Resolution Prover --The Higher-Order Prover Leo-III -- Well-Founded Unions -- Implicit Hitting Set Algorithms for Maximum Satisfiability Modulo Theories --

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## Sommario/riassunto

This book constitutes the refereed proceedings of the 9th International Joint Conference on Automated Reasoning, IJCAR 2018, held in Oxford, United Kingdom, in July 2018, as part of the Federated Logic Conference, FLoC 2018. In 2018, IJCAR unites CADE, TABLEAUX, and FroCoS, the International Symposium on Frontiers of Combining Systems, and, for the fourth time, is part of the Federated Logic Conference. The 38 revised full research papers and 8 system descriptions presented together with two invited talks were carefully reviewed and selected from 108 submissions. The papers focus on topics such as logics, deductive systems, proof-search methods, theorem proving, model checking, verification, formal methods, and program analysis.